

ПУБЛИКАЦИЈЕ АСТРОНОМСКЕ ОПСЕРВАТОРИЈЕ У БЕОГРАДУ
PUBLICATIONS OF THE ASTRONOMICAL OBSERVATORY OF BELGRADE

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Милан С. Димитријевић
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Milan S. Dimitrijević
BELGRADE ASTRONOMICAL OBSERVATORY IN 1999



БЕОГРАД
2000

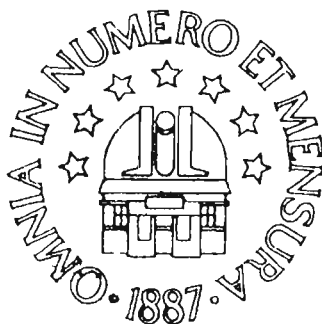
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Internet address <http://www.aob.bg.ac.yu>

The publication of this issue is financially supported by the Ministry of Sciences and Technology of Serbia and by the Federal Ministry of Development, Science and Environmental Protection.

Number of copies / тираж : 500

Production: Portal Co., Kosovska 51, 11000 Belgrade, Yugoslavia

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FOREWORD

During 1999, in spite of NATO aggression on Yugoslavia and the destruction of one of the Belgrade Observatory's fundamental instruments - the Large Meridian Circle during a NATO aggressors air attack (on May 13th), 112 bibliographic items have been published by the Observatory's fellows, 23 of which in international scientific journals of highest rank, 3 in books issued by international publishers, 22 in national scientific journals, 42 as contributed papers at international and national conferences and 8 in the IAU circulars. Six invited lectures have been given by the Observatory's fellows at international conferences and five at the national ones. In addition, two Ph.D. Theses and one M.Sc. Thesis have been published.

Numbers 159 and 160 of the Observatory's publication SERBIAN ASTRONOMICAL JOURNAL, as well as Nos. 63, 64, 65 and 66 of the PUBLICATIONS OF THE ASTRONOMICAL OBSERVATORY OF BELGRADE have been issued. These publications are regularly sent to 136 scientific institutions and libraries in 45 countries throughout the world and to 15 institutions and libraries within Yugoslavia.

Observatory's fellows took part in works of 8 scientific conferences abroad (9 participations by 6 fellows) and 3 conferences in Yugoslavia (35 participation by 22 fellows).

Belgrade Observatory organized, or took part in the organization of, the following conferences:

1. III Yugoslav Conference on Spectral Line Shapes, Brankovac (Fruška gora), 4-6. Oct. 1999.
2. XII National Conference of Yugoslav Astronomers and International Workshop on the Development of Astronomical Databases, Belgrade, 19-21. Nov. 1999.
3. Simpozijum Milanković - juče, danas, sutra (Symposium Milanković - yesterday, today, tomorrow), Belgrade, 25-26. Nov. 1999.

During 1998-99, Observatory's fellows continued collaboration with their colleagues in Argentina, Australia, Austria, Belarus, Belgium, Brazil, Bulgaria, Finland, France, Germany, Greece, Hungary, Italy, Japan, New Zealand, Northern Ireland, Romania, Russia, Slovakia, Spain, Sweden, Turkey, Ukraina, USA and Uzbekistan.

Besides numerous newspaper articles, radio and TV emissions Observatory's fellows authored. they gave 48 lectures on astronomical subjects outside our institution, thus contributing to the cultural life in our country. In addition, 4 lectures were given at the Astronomical Observatory itself.

As from 1998 Astronomical Observatory maintains internet connection available from each one of the personal computer at the Observatory with Windows 95 installed. I note also that Serbian Astronomical Journal is available on www through the Astrophysical Data System (ADS), thanks to the courtesy of the System's holders. The www address is: <http://adswww.harvard.edu/~BOBeo>. During 1999, the web site of the Belgrade Astronomical Observatory has been made and the corresponding www address is: <http://www.aob.bg.ac.yu>. Moreover, the database BELDATA has started developing, being available through internet at the address: <http://www.aob.bg.ac.yu/BELDATA>.

1. SOME OF THE MAIN RESULTS OF THE OBSERVATORY'S RESEARCH ACTIVITY

On the 13th of May 1999, about 13^h 30^m, during an air attack of NATO aggressors, the Large Meridian Circle of the Belgrade Astronomical Observatory has been destroyed. Seven stellar catalogues have been produced on this instrument, which, for this very reason, was put to the central and foremost place in our plans for modernization of our astronomical instruments.

In spite of NATO aggression, fellows of Belgrade Observatory have continued during 1999 contributing to collective research efforts of international astronomical community. Since the contributions published in international journals and results of observational programs are of particular interest to the astronomical community, I propose here to present a review of just these achievements.

Blagojević, Popović, Konjević and Dimitrijević (1999) reported on the results of theoretical and experimental study of Stark broadening and shifting of analogous spectral lines along the lithium ($3s^2S - 3p^2P^o$) and beryllium ($3s^3S - 3p^3P^o$) iso-electronic sequences. For the evaluation of Stark broadening parameters the impact semiclassical method is used. The Stark widths and shifts along both sequences are measured in the plasma of a low-pressure pulsed arc. Plasma electron densities were determined from the width of the He II P_α line while electron temperatures were measured from the relative line intensities. Both experiments agree within estimated uncertainties with our semiclassical results. Although the overall agreement between theory and experiments is found, gradual change of the discrepancy for the widths along the sequence is detected. The comparison of experimental Stark shifts with the theoretical ones shows that the magnitude and direction of line shifts along the Li-sequence may not always be predicted by theory. The comparison of experimental Stark widths along the Be-sequence for B II, C III, N IV and O V with semiclassical theory shows a similar tendency. The discrepancy with theory is large for the B II and it is improved for higher members of the sequence. The only measured Stark shifts for N IV and O V are of different signs (red for N IV and blue for O V), and this change of sign along the sequence cannot be explained by the theory.

Ćirković (1998/99) and Ćirković and Yurchenko (1998/99) have investigated the structure and dynamics of the gaseous galactic haloes, recently discovered observationally around a large part of low- and intermediate-redshift normal galaxies through redshift-coincidence studies of the QSO absorption spectra. If such gaseous haloes are generic phenomena (which is in accordance with currently intensely investigated theories of hierarchical structure formation), it is to be expected that they manifest themselves in several ways. In particular, the hypothesis that the same class of objects is responsible for both Ly_α (and metal-line absorption systems) puts some constraints on the theoretical density profiles of gas in such haloes, as pointed out by Ćirković

(1998/99) at the instance of models for metal-absorbing haloes recently put forward by Srianand and Khare. Two observational facts are important to keep in mind in any such analysis: the column density vs. impact parameter relation inferred from coincidence studies, and the maximal total mass of gas which could be located in galactic haloes (which is actually a set of constraints following from the studies of galactic dynamics, diffuse X-r. ν emission data, as well as the primordial nucleosynthesis). The preliminary conclusion seems to be that no single power-law density profile can satisfactorily account for both metal and Ly α absorption line populations; however, our very poor knowledge of the chemical evolution of halo matter somewhat weakens this conclusion and makes further work in this direction a necessity. On the other hand, Ćirković and Yurchenko (1998/99) have analyzed the question: what limits can be imposed on the sizes of gaseous haloes of normal galaxies when interaction with environment is taken into account? Thermal pressure of intergalactic medium does not seem to be an important factor; however, the ram pressure confinement is somewhat more promising. However, critical radii for ram-pressure stripping of gas in outer halo are still larger than the maximal empirically established absorption radius for galaxies which are located in the field, i.e. in not particularly dense environment. The conclusion reached is that field galaxies could very well be approximated as isolated structures, and the environment does not play any significant role in stratification and dynamics of gaseous galactic haloes. This conclusion, however, is valid only for recent epochs. If, as indicated by many more recent observations, the formation of well-defined galaxies occurred much earlier than traditionally thought, this same question might well have had the opposite answer in epochs around $z \sim 3$.

In collaboration with Dr. Jonathan Bland-Hawthorn of the Anglo-Australian Observatory, probably the world's foremost expert on low surface brightness optical recombination emission, Ćirković and Samurović have continued their previous work on the recombination emission lines originating in huge extended gaseous haloes of normal galaxies (Ćirković, Bland-Hawthorn and Samurović 1999). In their communication, they showed that the observation of H α emission of such a halo of $L \sim L^*$ galaxy at low ($z \sim 0.1$) redshift is feasible with the current level of sensitivity, but it still presents observers with a formidable task (for instance, exposure times required even at the 8m class telescopes are about 10 hours per galaxy), and the choice of targets for such a survey has to be made very discriminatively. These results follow from a generalized expression for intensity of fluorescent radiation caused by ionizations due to the metagalactic ionizing background as a function of redshift. It has been shown that this is not simple classical $(1+z)^{-4}$ relation, but somewhat complicated expression, which is still easily tractable in any particular case. Natural extension of these calculations are those dealing with the effects of strong clumping of matter within the halo. In addition, the necessary observational support for gaseous haloes is expected to come from Chandra orbital X-ray observatory, which will bring new momentum and topicality to this research. Another form of baryonic dark matter presumably hiding in the haloes of spiral galaxies is Massive Compact Halo Objects, commonly known as MACHOs. The properties of MACHO halo of our Galaxy, and, by extension, generic spiral galaxies at $z = 0$, have been the subject of the detailed study by Samurović, Ćirković and Milošević-Zdjelar (1999). This work has been carried out in

the framework of the Belgrade-MACHO project, which enters its third consecutive year of successful work. The focus of this year's work has been the connection between the cosmological density of baryonic dark matter and the MACHO abundance in the Milky Way halo. It has been shown that observationally measured optical depths toward LMC, SMC and Galactic bulge put strong constraints on the total amount of MACHOs within the galactocentric distance of 50 kpc. Coupled with other constraints, like the flatness of the Milky Way rotation curve, baryonic abundance from primordial nucleosynthesis, and the assumptions on the baryonic nature of MACHOs, this limits the range of possible values of the global halo flattening parameter q . High values of q (≥ 0.8) are improbable due to overabundance of baryons in the low redshift census. On the other hand, low values ($q \leq 0.2$) representing extremely flattened haloes are also implausible, because they conflict with the measured optical depths for microlensing. Our best fit, therefore, are moderately flattened haloes with $q \sim 0.6$. In addition, several interesting consequences of this mode of linking local with global cosmological results arose; one of them is the conjecture that only the values in the lower range for Hubble constant ($H_0 \leq 60 \text{ km s}^{-1} \text{ Mpc}^{-1}$) are entirely consistent with the baryonic census. However, it is still not clear how the high- and low-redshift regimes could be smoothly connected, nor what precise profile (including uncertain core radius) of the dark halo is to be employed. Of course, more sophisticated models, including contribution of non-baryonic matter will probably be capable of answering these dilemmas.

Dimitrijević (1999) reviewed results of the efforts of the Belgrade group to provide to astrophysicists and physicists an as much as possible complete set of Stark broadening parameters needed for stellar opacity calculations, stellar atmosphere modeling, abundance determinations and diagnostics of different plasmas in astrophysics, physics and plasma technology. Stark broadening has been considered within the semiclassical perturbation approach and the modified semiempirical method.

Potassium lines are present in Solar and stellar spectra; for example potassium has been found in SN 1987 A eject. This element is a product of alpha processes - neutron capture on slow time scale, and the data on its spectral line broadening parameters in various ionization stages are of interest in considering and modelling of subphotospheric layers. Such data are likewise of interest for the fusion plasmas and laser-produced plasmas research and for the investigation of soft X-ray lasers.

Dimitrijević and Sahal-Bréchet (1999a) have calculated within the semiclassical-perturbation formalism, electron-, proton-, and He III-impact line widths and shifts for 4 K VIII (for temperatures from 200,000 K up to 3,000,000 K and perturber densities 10^{18} cm^{-3} - 10^{22} cm^{-3}) and 30 K IX multiplets (for temperatures from 200,000 K up to 5,000,000 K and perturber densities 10^{18} cm^{-3} - 10^{22} cm^{-3}).

There are no experimental data concerning the Stark broadening of K VIII and K IX spectral lines. There exists, however, a prediction for K IX $4s^2S$ - $4p^2P^o$ Stark width (Djeniže and Labat, 1996), obtained with the help of established regularities of the Stark widths along Na isoelectronic sequence. For $T = 500\,000 \text{ K}$ and an electron density of 10^{17} cm^{-3} , Djeniže and Labat (1996) obtained for the Stark full width (FWHM) the value $0.0057 \pm 25\% \text{ \AA}$, while the present result is 0.0099 \AA . The presented data might be of interest for some problems in stellar and laboratory plasma

research, especially for subphotospheric layers consideration, investigation and modeling of fusion and laser-produced plasmas, and of soft x-ray lasers, as well as for the checking and development of the Stark broadening theory for multicharged ion line shapes, as e.g. for investigations of systematic trends along isoelectronic sequences. Using a semiclassical approach, Dimitrijević and Sahal-Bréchet (1999b) have considered electron-, proton-, and ionized helium-impact line widths and shifts for 20 In III and 2 Tl III multiplets, for perturber density of 10^{17} cm^{-3} and temperatures $T = 20,000 - 500,000 \text{ K}$, and electron-, proton-, and He III-impact line widths and shifts for 2 Pb IV multiplets, for perturber density of 10^{17} cm^{-3} and temperatures $T = 50,000 - 1,000,000 \text{ K}$.

There are no experimental results concerning In III, Tl III and Pb IV. There are however theoretical results for In III $5s^2S-5p^2P^o$ and Tl III $6s^2S-6p^2P^o$ multiplets, obtained within the semiempirical approach. The obtained widths at the temperature of 15000 K are about two times smaller than our lowest value at 20000 K. The corresponding experimental data will be very useful for further development and refinement of the theory of multicharged ion lines, and for Tl III and Pb IV particularly for the investigation of regularities along the isoelectronic sequences.

Calcium lines are present in solar and stellar spectra Adelman and Davis Philip (1992) have found, for example, neutral calcium lines in the Gamma Geminorum spectrum and Trimble (1991) reports the presence of this product of alpha processes in SN 1987 A ejecta. Accordingly, Stark broadening data on neutral calcium spectral lines are of interest for stellar plasma as well as for laboratory plasma research and modeling. Dimitrijević and Sahal-Bréchet (1999c) have calculated within the semiclassical-perturbation formalism electron-, proton-, ionized helium-, ionized magnesium-, ionized silicon-, and ionized iron-impact line widths and shifts for 189 neutral calcium multiplets. Accordingly, the relevant data for all principal perturbers in the solar plasma are provided.

There are two experimental studies reporting on the results of measurements of neutral calcium line Stark broadening parameters. Kusch and Pritschow (1970) have investigated experimentally Stark widths and shifts of four neutral calcium lines from plasma produced in a pulsed capillary discharge, and reported results for an electron density of 10^{18} cm^{-3} . Only for one line (the 5188.8 Å line from the $4p^1P^o-5d^1D$ multiplet) there exists a sufficiently complete set of atomic data needed for an adequate application of our approach. For this line, however, the impact approximation condition is not satisfied for the reported electron density. Hühn and Kusch (1973) published experimental Stark widths for the 4318.6 Å and 4425.4 Å lines from the $4s4p^3P^o - 4p^2^3P$ and $4s4p^3P^o - 4s4d^3D$ multiplets, from plasma produced in a high pressure arc. Only the 4425.4 Å line may be compared with our results. For an electron density of 10^{17} cm^{-3} and the temperature 10,000 K, Hühn and Kusch (1973) obtained for the full width at half maximum the value 0.29 Å, while our result is 1.26 Å. The semiclassical result of Griem (1974) is 1.51 Å. As one can see, the agreement between the experimental result and both theories is very poor. The reasons for such large difference between the experiment and the theory have been discussed in detail in Konjević and Roberts (1976), and the principal point of their remarks on the experiment is the lack of an independent measurement of electron density.

Using the semiclassical perturbation approach, we have calculated electron-, proton- and He II-impact line widths and shifts for 32 Zn I multiplets as a function of temperature and perturber density. The obtained results have been compared with the existing theoretical and experimental data

Neutral zinc spectral lines are present in stellar (*e.g.* Sneden *et al.* 1991) and solar (*e.g.* Biémont and Godefroid 1980, Grevesse 1984) spectra. Therefore, Stark broadening parameters of Zn I lines are of interest for a number of astrophysical problems, *e.g.* for abundance determinations, as well as for stellar plasma analysis, modeling and diagnostics. Such data are also of interest for laboratory plasma diagnostics, modeling and investigation.

Within the semiclassical-perturbation formalism Dimitrijević and Sahal - Bréchet (1999d) have calculated electron-, proton-, and ionized helium-impact line widths and shifts for 32 neutral zinc multiplets, as the continuation of the project to create a large Stark broadening data set for astrophysical and laboratory plasma research purposes. The agreement of all experiments with the present calculations as well as with other found in the literature is very poor. The ratio of experimental widths of Kusch and Oberschelp (1967) and the theoretical ones vary from 0.25 up to 3.56. The experimental widths of Fishman *et al.* (1979) are two times larger than theoretical values from both approaches. The temperature trend of the experimental widths of Rathore *et al.* (1985) is in such disagreement with both theoretical approaches that the ratios of the measured and calculated Stark widths vary *e.g.* for the 4722.16 Å line from 2.24 for $T = 13,700$ K up to 0.77 for $T = 18100$ K for the present results, and from 2.02 up to 0.69 for the theoretical values of Dimitrijević and Konjević (1983). For the shift, ratios of experimental values of Rathore *et al.* (1985) and the results of the present calculations vary from 1.24 to 0.46 for the same spectral line.

In the analysis of the Kusch and Oberschelp (1967) experiment, Konjević and Roberts (1976) have found large variations of Stark widths within multiplets, and supposed that this may be caused by the improper treatment of the self-absorption. Moreover, Dimitrijević and Konjević (1983) have shown on the basis of the analysis of Stark width systematic trends within spectral series, that the experimental results of Kusch and Oberschelp (1967) are in disagreement with such trends. Reliable experimental determinations of neutral zinc Stark broadening parameters will be of interest for checking and development of Stark broadening theory.

The study of Djurašević, Zakirov and Erkapić (1999) deals with the problem of the orbital and physical parameters' estimation of the W UMa type eclipsing binary RZ Tauri, based on the interpretation of new photometric U B V R observations. The light curves obtained at the Maidanak Observatory during 1989-91 show a slight asymmetry around secondary minima and a small difference in the height of the successive maxima.

These curves are analysed in the framework of the Roche computer model by applying the inverse-problem method. The analysis shows that RZ Tau system is in an overcontact configuration with $q = m_2/m_1 \sim 0.362$ and $i = 82^\circ.8$, generating total-annular eclipses. The best fitting is achieved with a bright active region on the secondary star, placed near the neck region between the components, with the temperature contrast between the spotted area and the surrounding photosphere being

$$A_s = T_s/T_2 \sim 1.070.$$

The spectral type of this system (F0 V) defines its behaviour as being between convective and radiative. Therefore Djurašević, Zakirov and Erkačić (1999) treated the gravity-darkening coefficients as free parameters in the inverse problem. The obtained value ($\beta_{1,2} \sim 0.215$) is likely to be appropriate for this case, showing that the common envelope of RZ Tauri is partly convective.

The basic parameters of the system and of the active region are estimated for all individual U, B, V and R light curves.

The paper of Djurašević and Erkačić (1999) concerns the light curve analysis of the active binary system of *OO Aql*. Basic orbital and physical parameters of this system were estimated by analysing photometric observations by Lafta and Grainger and Essam et al. Both groups of observations gave quite different light curves with a conspicuous asymmetry arising from unequal height of successive maxima. A slightly changed programme by Djurašević was applied. The programme was based on the Roche model and it included an option of overcontact configuration and active (bright or dark) spotted regions on the system's components. An inverse-problem method by Djurašević was used to estimate the parameters of the system and the active regions. The light-curve analysis suggested a significant change in the system. For Lafta and Grainger's light curves the analysis of Djurašević and Erkačić (1999) showed the presence of a dark spotted area near the polar region of the primary component. This dark area covered about 22% of the primary's hemisphere. Essam et al.'s light curves had very complex shape. In this case the mechanism of the mass transfer and the exchange of the thermal energy between the components could produce a bright-spot (bs) area on the secondary, near the Lagrange equilibrium point L_1 around the neck region between the stars. To explain a sharp increase of the system's brightness in the B filter immediately after the secondary minimum, Djurašević and Erkačić (1999) had to introduce also a hot-spot (hs) area of high temperature contrast on the secondary. With the increase of the brightness in the V-filter being of much lower intensity, this hot spot region could be taken as a local eruption. The behaviour of the B-V colour index with the orbital phase is in favor of this hypothesis as well.

The obtained results show that the light-curve changes are due to the development and moving of active spot regions on the components.

The paper of Djurašević (1999) is devoted to the problem of the determination of the orbital and physical parameters of the active eclipsing binary *SV Cam* on the basis of the interpretation of photometric observations made by Patkós during the period 1973 – 1981. The problem is solved in two stages: by obtaining a synthetic light curve in the case the parameters of the corresponding Roche model are given *a priori* (direct problem), and by determining the parameters of the model for which the best fit between the synthetic light curve and the observations is achieved (inverse problem). A total of 18 light curves are analysed in the framework of the Roche model, involving two spotted regions on the primary component of the system (Sp G3 V), with the temperature contrast between the spotted area and the surrounding photosphere $A_s = T_s/T_1 = 0.65$. The basic parameters of the system and of the spotted areas are estimated.

According to the obtained results the spotted areas are formed at high latitudes

and cover a significant part of the stellar surface. No clear cyclicity of the system's activity is noted from the analysed observations. There are some indications that the spotted area at high latitudes (above 70°) corresponds to an enhanced activity. Since the system's period is short ($P \sim 0^d.59$), the presence of spotted regions at high latitudes can be explained by the dynamo mechanism for rapid rotators. During the analysed period the spotted areas tend to fall into the specially active longitude sectors at high latitudes, near the stellar polar regions.

The light curve analysis allowed an estimation of the system's parameters and those of the active spotted regions.

In Djurašević, Antonopoulou, Rovithis-Livaniou and Deliyannis (1999), visual (BV) light curves of the RS CVn type binary system *SZ Psc* are presented. The light curves show a period change towards decreasing phases.

New parameters for the system are found based on an analysis of the observed light curves using the Djurašević's inverse-problem method.

The observed light curves of *SZ Psc*, in both observational bands, can be successfully interpreted within the Roche model with three spotted areas on the surface of the more massive component. Characteristics of the spots and a general discussion of the observed light curves and the results are given.

Janot-Pacheco, Jankov, Leister, Hubert, and Floquet (1999), present photometric data and 209 high-resolution, high signal-to-noise ratio optical spectra of the Be star ϵ Centauri obtained in 1993 and 1995, respectively. Time series analysis of these and other data, performed using the CLEAN, CLEANEST and Fourier Doppler Imaging techniques, show the presence of multiperiodic variations. They are interpreted in terms of low and high order non-radial pulsation modes. A strong frequency of 1.29 c/d is detected in line profile and photometric variations. It is attributed to a mode with $l = 2$. Other high amplitude signals present in spectroscopic data are 1.78 c/d, 3.82 c/d and 4.51 c/d. A frequency of 1.48 c/d appearing in spectroscopic data is compatible with the 1.56 c/d periodicity largely dominant in observations taken prior to 1993. The corresponding "superperiods" for four of the frequencies are commensurate at the 8% level. The star showed period and non-radial pulsation degree variations on timescales as short as 1.5 hour. The dominant mode apparently alternates between $l = 2$ and $l = 4$ every other day during the eight day time span. This could be a modulation linked to the superperiod or to the stellar rotation. The main periodicities detected in our analysis are compatible with the theoretical unstable g modes in SPB variables. Short time scale variability (1-3 hr), typical of high-order p modes is also systematically present.

It was found by Labat, Bukvić and Tankosić (1999) that the metastable atoms diffusing in a parent gas and bombarding a metal electrode, will cause the electric charge to build up on the electrode. The laser resonant pumping of a transition with the metastable lower level will cause depletion of the metastable atoms density, that consequently, alters the electrode potential.

It has been shown that in the case of neon, $1s5$ metastable atoms are predominantly responsible for the appearance of the optovoltic (OV) signal that is defined as a potential difference between two electrodes equidistant from the discharge. By the laser induced fluorescence method a stationary distribution of metastables, produced

by a discharge and diffusing into a neutral gas, has been measured. The results are supported by a model.

The dependence of the OV signal on the position of the laser beam between the discharge and one of the electrodes has also been measured and a physical model developed.

Large catalogues of asteroid mean elements need to be computed as a first step in the computation of proper elements, used to study asteroid families. The algorithms for this purpose available so far are only accurate to the first order in the masses of the perturbing planets; the mean elements have satisfactory accuracy for most of the asteroid belt, but degraded accuracy in the neighborhoods of the main mean motion resonances, especially the 2 : 1. Milani and Knežević (1999) investigated a number of algorithms capable of improving this approximation; they belong to the two classes of Breiter-type methods and iterative methods. The former are obtained by applying some higher order numerical integration scheme, such as Runge-Kutta, to the differential equation whose solution is a transformation removing the fast angular variables from the equations: they can be used to compute a full second order theory, however, only if the full second order determining function is explicitly computed, and this is computationally too cumbersome for a complicated problem such as the N-body. The latter are fixed point iterative schemes, with the first order theory as an iteration step, used to compute the inverse map from the mean to osculating elements; formally the method is first order, but because they implement a fixed frequency perturbation theory, they are more accurate than conventional single iteration methods; a similar method is already in use in our computation of proper from the mean elements. Many of these methods are tested on a sample of asteroid orbits taken from the Themis family, up to the edge of the 2 : 1 resonance, and the dispersion of the values of the computed mean semimajor axis over 100,000 years is used as quality control. The results of these tests indicate that the iterative methods are superior, in this specific application, to the Breiter methods, in accuracy and reliability. This is understood as the result of the cancellations occurring between second order perturbation terms: the incomplete second order theory, resulting from the use of a Breiter method with the first order determining function only, can be less accurate than complete, fixed frequency theories of the first order. Milani and Knežević (1999) have therefore computed new catalogues of asteroid mean and proper elements, incorporating an iterative algorithm in both steps (osculating to mean and mean to proper elements). This new data set, significantly more reliable even in the previously degraded regions of Themis and Cybele, is in the public domain.

Within the semi-classical approximation chemi-ionization processes during symmetrical atom-Rydberg atom collisions were considered by Mihajlov, Dimitrijević, Ignjatović and Vasiljević (1999), as well as the inverse chemi-recombination processes during the scattering of free electrons by corresponding collisional ion-atom complexes and molecular ions. It was shown that these processes must be taken into account when modeling the low-temperature layers of solar atmosphere and atmospheres of some helium-rich stars.

Ozeren, Doyle and Jevremović (1999) investigate the extent to which the Wilson-Bappu relationship holds for chromospherically active binaries using the Mg II h and

k lines of 41 RS CVn stars observed with IUE. The resulting fits are different from the relationships obtained for single, less active stars. The parallaxes used were those from the Hipparcos catalogue, these give a much better correlation than the magnitudes taken from CABS. Within a particular luminosity class the relationship is good, however it tends to break down when we incorporate objects ranging in luminosity from class I to V. From model calculations it appears that there is very little dependence of the Mg II line width on effective temperature. The line width does however depend on the column mass at the transition region boundary showing increased line width at lower column mass. There is also a dependence on the column mass adopted for the temperature minimum; however, the major and dominant parameter is the surface gravity scaling as $g^{-1/4}$. Within a luminosity class more active objects will show larger lines widths reflecting a higher column mass deeper in the atmosphere, e.g. at the temperature minimum level.

The lines of the ionized rare earth elements (REE) are present in the spectra of CP stars in a wide temperature domain. Usually, REE abundance analysis is based on the lines of the first ions, which have experimentally determined the oscillator strengths, but due to low ionization potentials the second ions of the REE are dominant in stellar atmospheres. The lack of atomic data for the lines of second ions of the REE did not allow to use them for abundance determinations, although line identifications were successful. For example, Cowley (1984) identified Dy III lines in spectra of a few magnetic stars, Cowley and Greenberg (1988) surveyed lines of doubly ionized REE in UV spectra of five magnetic stars, Mathys and Cowley (1992) presented Pr III identification in optical spectra of a number of CP stars. Sadakane (1993) suggested overabundance of La in α CMa and σ Peg, two hot Am-type stars and Ryabchikova et al (1999) provided an identification and quantitative analysis of Eu III lines in the optical spectra of 10 CP stars. The lines of Eu II in the optical spectra of CP stars are usually very strong and lie in the damping part of the curve-of-growth. Since in A-type stars mentioned here Stark broadening is the main pressure broadening mechanism corresponding data on Stark broadening of stellar spectral lines are needed for a number of astrophysical problems including the line formation and the abundance determinations.

Popović, Dimitrijević and Ryabchikova (1999) present the Stark widths for three La II and six La III multiplets, and Stark widths and shifts for six Eu II lines by using the modified semiempirical approach. Also, for Eu II $\lambda = 664.505$ nm and for Eu III $\lambda = 666.635$ nm lines estimates of the electron impact widths have been performed. Data in this article are the very first Stark broadening calculations for spectral lines of ionized lanthanum and europium and first reliable data on the rare - earth elements Stark broadening, which is important in particular for the abundance analysis of CP stars. The importance of the Stark broadening effect in stellar atmospheres under different conditions has equally been considered. Stark broadening becomes significant in hot stars, and it should be taken into account in the analysis of stellar spectral lines for $T_{eff} > 7000$ K in particular if europium is overabundant.

The Au II lines are observed in Hg-Mn and other CP stars. The investigation of gold in Hg-Mn stars shows that the abundances, obtained from the Au II $\lambda = 174.0476$ nm line, are between 4000 (for χ Lup) and 20000 (for κ Cnc) times larger than solar

ones. Considering that the resonant lines of ionized heavy elements ($z \geq 30$) are located in the ultraviolet spectral region, the abundance analysis of these elements has become possible thanks to satellite observations with high resolution spectrographs as e. g. International Ultraviolet Explorer (IUE) satellite ($R = 12000$) or Goddard High Resolution Spectrograph (GHRS) installed at Hubble Space Telescope. The number of heavy ion lines observations of the higher photometric quality and spectral resolution is increasing. Consequently, experimental and theoretical spectroscopic data for modeling of these lines are required.

Popović, Dimitrijević and Tankosić (1999) presented the electron - impact broadening parameters for six Au I lines and eight Au II transitions as a function of temperature, calculated by using the semiclassical perturbation (Au I) and modified semiempirical (Au II) approach, respectively. In addition to electron - impact full halfwidths and shifts, Stark broadening parameters due to proton-, and He II-impacts have been calculated for Au I lines, for perturber densities $10^{15} - 10^{19} \text{ cm}^{-3}$ and temperatures $T = 2500 - 50000 \text{ K}$. For Au II spectral lines, the electron - impact broadening calculation has been performed within the modified semiempirical approach. Considering the very complex spectrum of Au II, the jj coupling approximation for matrix - element calculation has been used. Calculations have been performed assuming the quantities concerned to be a function of temperature for an electron density of $N_e = 10^{17} \text{ cm}^{-3}$.

In order to bring out the influence of Stark broadening mechanism for gold spectral lines in stellar plasma, Popović, Dimitrijević and Tankosić (1999) have calculated the Stark widths for Au II $\lambda = 174.0476 \text{ nm}$ through the different models of stellar atmospheres. For the case of a hot A type star, in photospheric layers the line width due to Stark broadening is one order of magnitude larger than the one due to the thermal Doppler mechanism. In higher layers of the stellar atmosphere (τ about -4) however, the thermal Doppler mechanism is more important. In the case of white dwarf atmospheres the Stark broadening mechanism is important in all layers of atmospheres and in deeper atmosphere layers the Stark width is two or three order of magnitude larger than the thermal Doppler width. For the three atmosphere models considered in this article, Stark broadening effects should be taken into account in abundance determination and other investigations of stellar plasmas.

Spectroscopic and photometric observations of two R Coronae Borealis (RCB) stars, S Apodis and RZ Normae, have been carried out by Skuljan and Cottrell (1999) during the decline phase of each of these stars. Although the declines have very different global characteristics - the depth of the decline in brightness is respectively 6 and 2 magnitudes in S Aps and RZ Nor - there are some strong similarities in the spectroscopic and photometric characteristics. The photometry shows strong reddening during the initial phase of these declines. The spectroscopy indicates that similar characteristics are observed in the NaI D region with very few other spectroscopic changes. In both declines NaI D lines show strong emission components and high velocity (blue-shifted by up to 300 km s^{-1}) absorption lines. The centre of the absorption features appears to be shifted gradually during the declines indicating the acceleration of the dust cloud.

The spectral lines observations show a variability on all time scales: from minutes to years and decades. The variations in the range from minutes to days (short - term

variations) relate to the convective motions (granulation and supergranulation) and to the solar oscillations. The variations lasting for years and decades (long - term variations) are connected with the dynamical and thermal modulation of the internal layers and are also linked to the evolution of magnetic fields over a 11 - year cycle of the Sun.

The paper of Vince (1999) presents results of spectral line variations on these two very different time scales.

The central observational program in 1999 was the one pertaining to investigations of the 11th August 1999 total Solar eclipse. In several expeditions to Horgoš, Palić lake, Kikiinda, Dobanovci and Kamen Brjag in Bulgaria the majority of the staff took part.

The "Large Refractor", that is ZEISS 65/1055 cm equatorial, has been employed for micrometer and CCD(ST-6) measurements of double and multiple stellar systems (G. Popović, V. Trajkovska). Veselka Trajkovska published in Serbian Astronomical Journal results of CCD measurements of 105 double and multiple stars. On the visual telescope of the Ascania astrograph of 13,5/160 cm, photographic observations have been performed with CCD ST-6 and ST-8 cameras. During 43 nights, about 250 CCD exposures of new comets and minor planets have been secured by V. Protić-Benišek. Results of comets C/1998 M5 (LINEAR), C/1998 P1 (WILLIAMS), P/1998 U3 (JÄGER), C/1999 H1 (LEE), C/1999 S3 (LINEAR) and asteroids 1998 WS, 1240 Centenaria observations have been reported in eight IAU Circulars. On the Solar Spectrograph (ZEISS 20/302 cm equatorial), the observations of the radiation flux for 31 Solar spectral line, the measurements of their equivalent widths and the analysis of results obtained have been performed (I. Vince, L. Č. Popović, S. Erkapić, E. Bon, N. Stanić). At the Belgrade Observatory D. Jevremović performed spectral observations of RS CVn type stars in order to map active regions and Lj. Skuljan observed stars similar to the Sun.

During 1999, Miodrag Dačić defended at the Belgrade University his Ph D thesis *Analysis of the Stellar Coordinate Errors Influence on Determinations in Geodetic Astronomy*, and Darko Jevremović obtained Ph D degree at the Faculty of Sciences of the Queen's University of Belfast (North Ireland) with the thesis *Hydrogen Balmer Lines in Stellar Flares*. Predrag Jovanović obtained at Belgrade University the M. Sc. degree with the thesis entitled *The Solar Activity Influence on Earth's Rotation*.

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2. EQUIPMENT AND FACILITIES

In consequence of the NATO aggression on Yugoslavia nothing could be purchased during 1999.

On 10th May 1999, during an air attack of NATO aggressors, the Large Meridian Circle and the pavilion of this instrument burnt up at about 13^h 30^m.

- Repairing of damages caused by the bombardments of NATO aggressors has been performed.

3. BUDGET

INCOMES IN DINARS IN THE PERIOD JAN. - DEC. 1999

I PUBLIC INCOMES

1. From the Ministry of Science and Technology of Serbia:	
1.1 for the project "Astrometrical, Astrodynamical and Astrophysical Researches"	1 947 441.73
1.2 for the Time Keeping and Geographic Coordinate Determination Service	307 494.00
1.3 other incomes from the same Ministry	169 900.00
2. from the Federal Ministry for Development, Science and Environment Protection:	
2.1 for the project "Multidisciplinary Investigations of Current Earth Crust Movements on Yugoslav Territory"	17 000.00
2.2 support for diverse activities	65 000.00

II INCOMES FROM RENDERING SERVICES INSIDE YUGOSLAVIA

1. judiciary expertises	6 000.00
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III OTHER SPECIAL INCOMES

1. Revenues from the work market (refunds for the trainees)	54 775.66
2. Donations and Sponsorships	
2.1 "TELEKOM Srbija"	27 000.00
2.2 "DUNAV" Insurance company	5 000.00
2.3 "IMTEL" Institute for microwave technique	2 000.00
2.4 City Committee of the Socialist Party of Serbia	4 500.00
2.5 "GRMEČ" Company	5 000.00
2.6 "POTISJE" Stock Company for the Production of Building Material, Kanjiža	2 000.00
2.7 "CRVENKA" Alcohol factory, Crvenka	5 000.00
2.8 "UNION" Food industry, Sivač	2 000.00
2.9 "CERIĆ" Company	1 000.00
2.10 "JUCIT" Company	1 000.00

TOTAL (I+II+III) 2 628 386.39

EXPENDITURES

I EXPENCES ON MATERIAL, ENERGY, SPARE PARTS
AND SMALL STOCKS

1. Expences on material small stocks, office stocks, sanitary stocks, journals and books	
1.1 Expences on small stocks	11 877.67
1.2 Expences on office stocks	44 490.99
1.3 Expences on sanitary stocks	16 384.01
1.4 Expences on journals and books	21 554.80
2. Expences on coal; "KOPAONIK", Beograd	5 821.40
3. Expences on electricity; "ELEKTRODISTRIBUCIJA", Beograd	35 019.06
Total	135 147.93

II EXPENDITURES ON SALARIES AND CONTRIBUTIONS
CHARGING THE EMPLOYER

1. Net salaries	677 108.83
2. Taxes charging the employer	125 918.87
3. Contributions charging the employer	327 988.36
1. Annual vacation reimbursement, prizes, other supports of the staff	71 041.17
Total	1 202 057.23

III EXPENDITURES ON THE EQUIPMENT PURCHASES IN 1998

Total	0.00
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IV EXPENDITURES ON PRODUCTIVE SERVICES

1. Post and telephone services	83 894.35
2. Public transport expences	23 836.99
3. Investments and investment maintenance of the working means	
3.1 The debt for tinsmith works on the Large Refractor dome; "RAVNICA", Beograd (M. Stojković)	32 050.00
3.2 Repairs and cleansing of cauldrons; "RAVNICA", Beograd (M. Stojković)	9 650.00

3.3 Upgrading and repairs of computer equipment, urgent interventions and maintenance of Switchboards	37 901.89
3.4 Repair of windows broken in consequence of NATO aggression; "RAVNICA". Beograd (M. Stojković)	25 700.00
3.5 Recycling of the printer toner cassette	8 473.62
4. Announcements in newspapers	854.66
5. Expences on consumed water	3 205.70
6. Expences on garbage removal	9 958.83
7. Expences on photo services	10 335.69
Total	245 861.23

V EXPENDITURES ON NON PRODUCTIVE SERVICES

1. Job Contracts	192 212.54
2. Expenditures on printing of the Observatory's publications in 1998	
2.1 Serb. Astron. J. No 159; "PORTAL Co", Beograd	27 400.00
2.2 Publ. Astron. Obs. Belgrade No 63; "PORTAL Co", Beograd	22 800.00
2.4 Publ. Astron. Obs. Belgrade No 64; "PORTAL Co", Beograd	16 600.00
2.5 Publ. Astron. Obs. Belgrade No 65; "PORTAL Co", Beograd	27 900.00
3. Expenditures on printing of greetings cards "PORTAL Co", Beograd ...	3 755.50
4. Foreign languages courses for the staff-members	320.00
5. Expences on photocopying outside the Observatory	4 191.70
6. Expences on lawyer services	2 740.00
Total	297 919.74

VI NONMATERIAL EXPENCES

1. Transport expences on business trips	71 010.30
2. Transport to work place for the staff-members	54 265.13
3. Meals for the staff-members	112 603.70
4. Expences on XII National Conference of Yugoslav Astronomers	31 152.56

5. Expences for acomodation and entertainment of guests astronomers from Austria, Belarus, Bulgaria, Macedonia and Russia. 8th March and New Year marking at the Observatory and other forms of representation	76 645.31
6. Payments transactions	8 157.40
7. Membership fees	900.00
8. Taxes	2 854.06
Total	357 588.46

VII EXPENCES ON TAXES AND CONTRIBUTIONS

1. Taxes on the building plot	1 298.54
2. Social insurance contributions charging the employer	385 767.62
Total	387 066.16

GRAND TOTAL (I+II+III+IV+V+VI+VII)	2 625 640.75
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Incomes - Expenditures Difference	+ 2 745.64
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Uspon i pad teorije večnog stanja
II. deo: Konformno invarijantna kosmologija
(The rise and the fall of the steady state theory
Part II: Conformally Invariant Cosmology)
Vasiona, No 4, 1999, 101.
 5. Milan S. Dimitrijević
Otkrivanje vasiona
Vikinzi na Marsu
(Discovering of the Universe
Vikings on the Mars)
Školarac, No. 28, January 1999, 22.
 6. Milan S. Dimitrijević
Do Sunca i nazad
(To the Sun and back)
I.Q. (Naučni magazin), Beograd, No. 4, 1998, 6.
 7. Milan S. Dimitrijević
Ivan Atanasijević (1919-1998)
Vasiona, No. 5, 1998, 136.
 8. Milan S. Dimitrijević
Otkrivanje vasiona
Ka Jupiteru i Saturnu - Pionir 10 i Pionir 11
(Discovering of the Universe
Toward Jupiter and Saturn - Pioneer 10 and Pioneer 11)
Školarac, No. 29, February 1999, 22.
 9. Milan S. Dimitrijević
Otkrivanje vasiona
Pogled preko stare granice Sunčevog sistema - Vojadžer 1 i 2
(Discovering of the Universe
The look beyond old frontier of the Solar system - Voyager 1 and 2)
Školarac, No. 30, March 1999, 22.

10. Milan S. Dimitrijević
Zašto je noćno nebo tamno I.
(Why the night sky is dark. I.)
Naše staklo (List Srpske fabrike stakla), Paraćin, 31.05.1999, 11
11. Sastavio (Compiled by): Milan S. Dimitrijević
Crteži (Drawings): Vladimir M. Dimitrijević
Poetske vizije Sunca i Meseca
Mala antologija
(Poetic visions of Sun and Moon
Little anthology)
Vasiona, No 2-3, 1999, 81.
12. Milan S. Dimitrijević
Potpuno pomračenje Sunca 11. avgusta 1999. godine
Poslednje u milenijumu
(11th August 1999 total Solar eclipse
The last in millennium)
Komuna, Kikinda, 29.07.1999.
13. Milan S. Dimitrijević
Pomračenja Sunca i Meseca kroz istoriju
Zakon prirode i priroda ljudi
(Solar and Lunar eclipses through history
The law of nature and the nature of men)
Politika, 7.08.1999, 23.
14. Milan S. Dimitrijević
Pred kraj milenijuma - Sa astronomijom u prošlost i budućnost vasiona
At the end of the millennium - With astronomy to the past and the future of
Universe
Vasiona, No. 4, 1999, 89.
15. Milan S. Dimitrijević
Otkrivanje vasiona
Nevidljivo nebo
(Discovering of the Universe
Invisible sky)
Školarac, No. 31, September 1999, 22.
16. Milan S. Dimitrijević
Povodom pet godina od osnivanja Zadužbine Andrejević
(On the occasion of five years since the founding of "Andrejević" Fondation)
In: Pet godina Zadužbine Andrejević od 1994. do 1999., Zadužbina Andrejević,
Beograd 1999, 7th page without numeration.
17. Milan S. Dimitrijević
Otkrivanje vasiona

- Pogled u srce Halejeve komete
(Discovering of the Universe
The look in the Halley's comet heart)
Školarac, No. 32, October 1999, 18.
18. Milan S. Dimitrijević
Otkrivanje vasiona
Radio-teleskopi danas i u budućnosti
(Discovering of the Universe
Radio-telescopes today and in the future)
Školarac, No. 33, November 1999, 18.
19. Milan S. Dimitrijević
Kosmičke vizije Milića od Mačve
(Milic of Mačva's cosmic visions)
Vasiona, No 5, 1999, 142.
20. M. S. Dimitrijević
Letnje računanje vremena 2000. godine
(Summer time in the year 2000)
Vasiona, No 5, 1999, 144.
21. Milan S. Dimitrijević, Miodrag Dačić, Zorica Cvetković
Kometa C/1999 S4 (LINEAR)
(Comet C/1999 S4 (LINEAR))
Vasiona, No 5, 1999, 125.
22. Milorad Djokić
Izložba "150 godina srpske meteorologije"
(Exhibition "150 years of Serbian meteorology")
Vasiona, No 1, 1999, 17.
23. Aleksandar Kubičela
Jeduo sećanje na pomračenje iz 1961.
(A remembrance of the 1961st Solar eclipse)
Vasiona, No 2-3, 1999, 72.
24. Rade Pavlović
Mrki patuljci
(Brown dwarfs)
Vasiona, No. 4, 1999, 94.
25. Rade Pavlović
Statistika pomračenja
(The statistics of the eclipses)
Vasiona, No. 4, 1999, 112.
26. Luka Č. Popović
Zvezdane magline

(Stellar Nebulae)

Galaksija, No. 284, January 1999, 48.

27. Luka Č. Popović
Kada počinje treći milenijum?
(When starts the third millennium?)
Galaksija, No. 285, February 1999, 51.
28. Luka Č. Popović
Bliskost Venere i Jupitera
(The Conjunction of Venus and Jupiter)
Galaksija, No. 286, March 1999, 17.
29. Luka Č. Popović
Potpuna pomračenja Sunca kroz vekove
(Total Solar eclipses throughout centuries)
Vasiona, No 2-3, 1999, 63.
30. Luka Č. Popović
Potpuna pomračenja Sunca (Post festum)
(Total Solar eclipses - Post festum)
Galaksija, No. 287, October 1999, 17.
31. Luka Č. Popović
Mogućnost života u Sunčevom sistemu
Planete Zemljinog i Jupiterovog tipa
(The possibility of life in the Solar system
Planets of the Earth and Jupiter types)
Galaksija, No. 288, November 1999, 43.
32. Luka Č. Popović, Aleksandar Kubičela
Zašto dolazi do pomračenja?
(Why happens an eclipse?)
Galaksija, No. 285, February 1999, 48.
33. Luka Č. Popović, Aleksandar Kubičela
Zašto dolazi do pomračenja?
(Why happens an eclipse?)
Naša Reč, Leskovac, 6.08.1999, 7.
34. Nataša Popović
Vesti sa astronomskog susreta u Belogradčiku
(News from the astronomical meeting in Belogradchik)
Vasiona, No 1, 1999, 16.
35. Istvan Vince
O pomračenju Sunca
(On the Solar eclipse)
Vasiona, No 2-3, 1999, 29.

36. Ištvan Vince
 Pomračenje Sunca 11. 8. 1999. godine.
 (The 11th August 1999 Solar eclipse)
 Mladi fizičar, No 75. 1.

4.12 INTERVIEWS

1. E. Ćirić
 Radost novog početka
 (The joy of new beginning)
 (Miodrag Dačić)
 TV Novosti, 13.01.1999, 18
2. Stanko Stojiljković
 Kosmos se ubrzano širi
 Zvezde će se pogasiti
 (The Universe is rapidly expanding
 Stars will stop shining)
 (Milan Dimitrijević)
 Politika, 7.03.1999, 27.
3. Ljubo Djorić
 Mr Milorad (Miodrag *primedba autora*) Dačić iz Astronomske opservatorije na
 Zvezdari
 Umesto zvezde Danice i Marsa prividjaju nam se sateliti
 (Mr Milorad (Miodrag *author's remark*) Dačić from Astronomical Observatory at
 Zvezdara)
 (Instead of Venus and Mars we have the apparition of the satellites)
 (Miodrag Dačić, Djura Božičković, Gojko Djurašević, Milan Radovanac)
 Svedok, 1.06.1999, 22.
4. Branka Djurišić, Dragana Šubarević, R. Stanković
 Da li će 11. avgusta biti sudnji dan?
 (Will 11th August be the Doomsday?)
 (Ištvan Vince)
 Nedeljni Telegraf 23.06.1999, 6.
5. Ivana Vučković
 Dr Milan Dimitrijević: Trideset godina posle spuštanja na Mesec
 Neki ljudi još veruju da je zemlja ravna
 (Dr Milan Dimitrijević: Thirty years after the landing on the Moon
 Some people still belive the Earth were plane)
 Borba, 16. VII. 1999, 9.

6. Petar Vuca
Dr Milan S. Dimitrijević direktor Astronomske opservatorije
Korona najlepší ukras
(Dr Milan S. Dimitrijević director of the Astronomical Observatory
Corona, the nicest decoration)
(Milan Dimitrijević)
Kikindske, Kikinda 23.07.1999, 14.
7. D. J. Vučićević
Male šanse da nas baš ovog 11. avgusta zadesi smak sveta, realnija pretnja od
zdravstvene kataklizme
Čudo koje je Galileja koštalo vida
(Small chances of 11th August being the doomsday, more real the threat of the
health cataclysm
A miracle that cost Galileo his eyesight)
(Ištvan Vince)
Glas Javnosti, 3.08.1999, 10.
8. R. R. (Radovan Radovanović)
Dr Milan S. Dimitrijević direktor Astronomske opservatorije
Zbog pomračenja propalo Vizantijsko carstvo
(Dr Milan S. Dimitrijević director of the Astronomical Observatory
Because of an eclipse the Byzantine Empire went to its doom)
(Milan Dimitrijević)
Zaštita, August 1999, 3.
9. Želimir Štrbo
Neosnovana nagađanja o usudnom 11. avgustu
Smrklo se i Suncu
(Ungrounded guessings on the fateful 11th August
It grew dark even to the Sun)
(Milan Dimitrijević)
Revija 92, 6.08.1999, 7.
10. O. Milivojčević
Profesor Ištvan Vince o načinima za bezbedno posmatranje pomračenja Sunca
Folija, crno - beli film, teleskop
(Professor Ištvan Vince on methods for safe observation of the Solar eclipse
Foil, black and white film, telescope
(Ištvan Vince)
Danas, 6.08.1999, 11.
11. O. Milivojčević
Specijalne naočare za 15 dinara
(Special glasses for 15 dinars)
(Nataša Stanić)
Danas, 6.08.1999, 11.

12. M. D. Milenković
 Pomračenje Sunca videće se i nad Beogradom
 Spektakl na nebu
 (Solar eclipse will be visible over Belgrade too
 A spectacle in the sky)
 (Milan S. Dimitrijević)
 Beogradske novine, 6.08.1999, 20.
13. S. N. Vasiljević, N. Ajdinović
 Još šest dana do pomračenja Sunca
 "Čudo" koje volimo, ali uz naočare
 (Another six days to the Solar eclipse
 A "miracle" that we love, but with - glasses)
 (Aleksandar Kubičela)
 Borba, 6.08.1999, 12.
14. G. (Gordana) Radisavljević
 Vojislava Protić - Benišek - Astronom
 Druženje sa zvezdama
 (Vojislava Protić - Benišek - Astronomer
 Keeping company with the stars)
 Politika, 9.08.1999, 24.
15. Branka Djurišić
 Svemirska policija protiv 200 mogućih ubica planete Zemlje
 Space police against 200 would be killers of the planet Earth
 (Vojislava Protić - Benišek)
 Nedeljni Telegraf, 11.08.1999, 16.
16. Stanislav Cvetković
 Velika parada planeta
 Neopravdani strah
 (The big parade of planets
 The unjustified fear)
 (Milan Dimitrijević)
 Politika, 31.12.1999 - 3.01.2000 Science and technology, without numeration.
17. Dušan Cicvara
 I na nebu i na zemlji
 (Both on the sky and the earth)
 (Vojislava Protić - Benišek)
 Naša Zvezdara, No 18, December 1999, 24.
18. Slobodan Žižić
 Zoričina vasiona
 (Zorica's Universe)
 (Zorica Cvetković)
 Gročanske novine, No 229, December 1999, 2.

4.13 NEWSPAPER ARTICLES ON ASTRONOMICAL OBSERVATORY. ITS ACTIVITY AND ACTIVITY OF ITS FELLOWS

1. Darodavci biblioteke Matice Srpske u periodu 1995 - 1998. godine
(Donators of the Matica Srpska Library in the 1995 - 1998. period)
(Milan Dimitrijević)
Rad Matice Srpske, Novi Sad, **CLXXII**. No 35, 1998, 76.
2. Darodavci biblioteke Matice Srpske u 1998. godini
(Donators of the Matica Srpska Library during 1998)
(Milan Dimitrijević)
Rad Matice Srpske, Novi Sad, **CLXXII**. No 35, 1998, 218.
3. Bogat program Humanitasa ovog vikenda
Danas dečiji maskenbal
(Copious programme of Humanitas this weekend
Today childrens masked ball)
(Milan Dimitrijević)
Vesti, Bad Vilbel, Germany, 19. 02. 1999, 16.
4. Pred nama je Astronomski zanimljiva godina
Pozorište u nebeskom beskraju
(Before us an astronomically interesting year
theater in the celestial infinity)
(Luka Popović)
Politika, 21. 02. 1999, 13.
5. Milan Jeličić
"Astronomija na kraju XX veka"
(Astronomy at the close of XX century)
(Miodrag Dačić)
Vasiona, No. 5, 1998, 159.
6. Milan Jeličić
Skup "Razvoj astronomije kod Srba"
(Meeting "Development of astronomy among Serbs")
(M. S. Dimitrijević, L. Č. Popović, V. Živkov, P. Jovanović, V. Mijatović, R.
Pavlović, N. Popović, M. Djokić, V. Trajkovska, V. Protić - Benišek, J. Arsenijević,
A. Kubičela, G. Popović, M. Dačić, Z. Cvetković, S. Sadžakov, G. Damljanović)
Vasiona, No. 5, 1998, 159.
7. Zoran Simić
Društvo astronoma Srbije
(Astronomical Society of Serbia)
(I. Vince, S. Ninković, S. Pavić, S. Stepanović, M. Ćirković)

- Vasiona, No. 5. 1998, 162.
8. Milan Jeličić
 Okrugli sto o "Pomračenju Sunca 1999. godine"
 (Round Table "The 1999 Solar eclipse")
 (M. S. Dimitrijević, L. Č. Popović, I. Vince)
 Vasiona, No. 5, 1998, 163.
9. Dragana Matović
 Pogled u nebo iznad grada
 "Poljubac" Venere i Jupitera
 (A look at the sky above the town
 A "kissing" of Venus and Jupiter)
 (M. Dačić)
 Politika, 1. 03. 1999, 20.
10. Staško Stojiljković
 Istraživanje Politike: Odliv mozгова (5)
 Odlični odlaze, odlični ostaju
 (A "Politika" 's investigation: The brain drain (5)
 The best ones go away, the best ones are staying here)
 (M. Dimitrijević)
 Politika, 1. 03. 1999, 13.
11. A. Š.
 Da li će i u trećem milenijumu važiti dosadašnji razmak između prostih i prestupnih godina?
 Deljivo sa četiri.
 Will in the third millennium be valid the existing separation between common and leap years?
 Divisible by four
 (M. S. Dimitrijević)
 Večernje Novosti, 13. III. 1999, 3.
12. A. Š.
 Fleš
 (Flash)
 (M. S. Dimitrijević)
 Večernje Novosti, 16. III. 1999, 3.
13. Milan Jeličić
 XIV Beogradski astronomski vikend
 (XIV Belgrade astronomical weekend)
 (M. S. Dimitrijević, M. Dačić, L. Č. Popović, I. Vince, S. Jankov, M. Čirković, A. Kubičela, In the photo: M. S. Dimitrijević, N. Stanić, N. Popović, V. Trajkovska, M. Čirković)
 Vasiona, No 1, 1999, 21.

14. Srdjan Samurović
Pokloni Milana Ćirkovića
(Presents of Milan Ćirković)
(M. Ćirković)
Vasiona, No 1, 1999, 23.
15. Milan Jeličić
Nova izdanja Astronomske opservatorije
(New editions of Astronomical Observatory)
(M. S. Dimitrijević, Z. Cvetković)
Vasiona, No 1, 1999, 19.
16. Milan Jeličić
Predavanja o pomračenju Sunca
(Lectures on Solar eclipse)
(I. Vince, L. Č. Popović)
Vasiona, No 1, 1999, 20.
17. Belehradsky astronom chce svou zemi branit vlastnima rukama
Belgrade astronomer will defend his country with his own hands
(M. S. Dimitrijević)
Lidove Noviny, Praha, 26.03.1999, 2
18. Doleček: Konec mezinárodního práva
Doleček: The end of international laws
(M. S. Dimitrijević)
Pravo, Praha, 26.03.1999, 3.
19. Proti zasahu ostre protestoval slovansky vybor
Against the attack the Slav Committee strongly protested
(M. S. Dimitrijević)
Lidove Noviny, Praha, 29.03.1999, 3.
20. Ne prolevat slovanskou krev
Do not shed Slav blood
(M. S. Dimitrijević)
Halo noviny, Praha, 29.03.1999, 2.
21. Dj. D.
Poníranje u svest
(Penetration into the conscience)
(M. S. Dimitrijević)
NIN 22.04.1999, 33.
22. Zayava Vseslov'yans'kogo soboru
(Declaration of the Pan-Slav Committee)
(M. S. Dimitrijević)
Gart (Ukrajina), No 17, 23.04.1999

23. Oglas o pokretanju postupka za izbor u zvanje
 (The announcement on starting of the election procedure for granting scientific rank)
 (M. Dačić, D. Olević, I. Pakvor, Z. Cvetković, Lj. Skuljan, V. Protić-Benišek, R. Pavlović)
 Politika, 15.05.1999, 33.
24. Narodna biblioteka Srbije i Zadužbina Andrejević
 (Serbian National Library and Andrejević Foundation)
 (M. S. Dimitrijević)
 Politika, 26.05.1999, 29.
25. G. P.
 Sto knjiga Zadužbine Andrejević
 Agresor nikada neće razumeti ovaj narod
 (Hundred books of Andrejević Foundation
 Aggressor will never understand this nation)
 (M. S. Dimitrijević)
 Politika, 28.05.1999, 13.
26. S. A.
 Danas u Planetarijumu na Kalemegdanu
 Predavañje o totalnom pomraćenju Sunca
 (Today in Planetarium at Kalemegdan
 The lecture on total Solar eclipse)
 (I. Vince, L. Č. Popović, A. Kubičela, M. S. Dimitrijević)
 Politika, 18.06.1999, 20.
27. Slobodanka Andrić
 Počelo odbrojavanje dana do potpunog pomraćenja Sunca
 Minuti koji se čekaju ceo vek
 (Count-down of days until the total Solar eclipse has started
 Minutes which we wait for a whole century)
 (I. Vince, L. Č. Popović, A. Kubičela)
 Politika, 28.06.1999, 13.
28. Ličnosti: Dr Milan Dimitrijević
 Istraživač zvezdanih prostora
 (Personages: Dr Milan Dimitrijević
 Explorer of starry spaces)
 Leskovčanin, IV, No C/10, June 1999, 6.
29. Časopisi: Leskovčanin
 (Journals: Leskovčanin)
 (M. S. Dimitrijević)
 Politika, 3.07.1999, 24.

30. Astronomska početnica
Pogled u nebo
(Astronomy for beginners
A look at the sky)
(M. S. Dimitrijević)
Politika, 9.07.1999, 35.
31. Deseti broj "Leskovčanina"
(The tenth number of "Leskovčanin")
(M. S. Dimitrijević)
Naša Reč, 9.07.1999, 9.
32. Naučno popularno predavanje u Narodnoj biblioteci "Jovan Popović"
Sudbina vasione
(Popularizing lecture in National Library "Jovan Popović"
The fate of the universe)
(Milan Dimitrijević)
Kikindske, Kikinda 16.07.1999, 16.
33. Miodrag Dačić. Opservatorija na Zvezdari
Špijunski satelit nad Srbijom - zvezda
(Miodrag Dačić. Observatory at Zvezdara
The spy satellite over Serbia - a star)
Danas, 15.07.1999, 5.
34. Slobodanka Andrić
Na dan potpunog pomračenja Sunca
Neće biti propast sveta
(On the day of the total Solar eclipse
The doomsday will not happen)
(I. Vince)
Politika, 18.07.1999, 20.
35. Još nema para za našu ekspediciju
(Still no money for our expedition)
(I. Vince)
Politika, 18.07.1999, 20.
36. Individual membership from non-adhering countries
Transactions of the IAU Vol. XXIII B, Proc. XXIII General Assembly, Kyoto 1997.
ed. J. Andersen. Kluwer, Dordrecht, Boston, London, 467.
(J. Arsenijević, M. S. Dimitrijević, G. Djurašević, Z. Knežević, A. Kubičela, I. J. A.
Mitić, S. Ninković, I. Pakvor, G. Popović, M. B. Protić, S. Sadžakov, I. Vince)
37. Astronomska početnica
Merenje vremena
(Astronomy for beginners
Measurement of time)

(M. S. Dimitrijević)
Politika, 23.07.1999, 35.

38. Dr Milan Dimitrijević naš vodeći astrofizičar poklonio biblioteci nove knjige
Obogaćen fond Naučnog odeljenja
(Dr Milan Dimitrijević our leading astrophysicist donated to the library new books
The stoks of Scientific division enriched)
(M. S. Dimitrijević)
Kikindske, Kikinda, 23.07.1999, 14.
39. D. Ž. Obadović
Prikazi novih knjiga i udžbenika iz fizike
(M. S. Dimitrijević: Astronomska spektroskopija)
(Reviews of new books and text books on physics
M. S. Dimitrijević: Astronomical spectroscopy)
Zbornik predavanja sa republičkog seminara o nastavi fizike, Društvo fizičara Srbije,
Beograd (1999). 137.
40. Biblioteka grada Beograda
Čitaonica Odeljenja umetnosti (Predavanje)
(Belgrade City Library
Lecture room of the Art Department (Lecture))
(I. Vince, A. Kubicela, L. Č. Popović)
Politika, 25.07.1999, 32.
41. Pomračenje za kraj milenijuma
(An eclipse for the end of the millenium)
(M. S. Dimitrijević)
Borba, 27.07.1999, 7.
42. J. M. - Z. G.
Pomračenje Sunca Jugosloveni će doživeti 11. avgusta a astronomi najavljuju:
Videćemo kako Sunce nestaje
(The Yugolsavs will see Solar eclipse on 11th August, astronomers announcing:
We will see how the Sun desapears)
(M. S. Dimitrijević)
Glas Javnosti, 27.07.1999, 6.
43. J. A.
Uoči predstojećeg pomračenja Sunca
Astronomska opservatorija predlaže 11. avgust za neradni dan
(On the eve of the forthcoming Solar eclipse
Astronomical Observatory proposes 11th August for hollyday)
(M. S. Dimitrijević)
Politika, 27.07.1999, 21.
44. Vodič: Beograd: Biblioteka grada Beograda
(The Guide: Belgrade: Belgrade City Library)

(M. S. Dimitrijević, I. Vince, L. Č. Popović, A. Kubičela)
Blic, 27.07.1999, 14.

45. S. Č.
Ne bojte se, smaka sveta neće biti
(Do not fear, the world's demise will not happen)
(M. S. Dimitrijević)
Politika Ekspres, 27.07.1999, 8.
46. G. N.
Sinoć u Biblioteci grada
Predstavljeno specijalno izdanje časopisa "Vasiona"
(Last evening in the City Library
Presented the special issue of the journal "Vasiona")
(M. S. Dimitrijević, I. Vince, A. Kubičela, L. Č. Popović)
Politika, 28.07.1999, 22.
47. D. Matović
Zašto Astronomska Opservatorija traži da 11. avgust bude neradni dan
Pomračenje Sunca može da izazove zdravstvene probleme
(Why Astronomical Observatory proposes 11th August for a hollyday
Solar eclipse may provoke health problems)
(M. S. Dimitrijević)
Politika 28.07.1999, 20.
48. M. (Mirjana) Milenković, B. (Branka) Jakšić
Totalno pomračenje Sunca je neobična i ne toliko bezazlena pojava
Oprez zbog mraka usled dana
(Total Solar eclipse is an unusual and not just innocent event
Be careful because of the darkness in the middle of the day)
(M. S. Dimitrijević)
Politika Ekspres, 28.07.1999, 6.
49. Cela "Vasiona" o mraku u podne
(The complete "Vasiona" on the darkness at noon)
(M. S. Dimitrijević)
Borba, 28.07.1999, 4.
50. D. Božin
Predavanje - 6. avgusta
(A lecture - on the 6th August)
(M. S. Dimitrijević, L. Č. Popović)
Komuna, Kikinda, 29.07.1999, 6.
51. M. (Mirjana) Milenković, B. (Branka) Jakšić
Zašto je Beogradska opservatorija tražila da se 11. avgust proglasi neradnim
Spektakl koji se ne sme propustiti
(Why Belgrade Observatory proposed 11th August to be proclaimed a hollyday

- A Spectacle not to be missed)
 (M. S. Dimitrijević)
 Politika Ekspres, 30.07.1999, 6.
52. I. Stanojević
 Oči pod katanac
 (Eyes under the padlock)
 Veernje novosti, 30.07.1999, 13.
53. D. G.
 Beogradjani i pomračenje Sunca
 Nikuda bez kobaltnih naočara
 (Belgrade Citizens and Solar eclipse
 Nowhere without cobalt glasses)
 (M. S. Dimitrijević)
 Borba, 30.07.1999, 7.
54. V. S.
 Bez straha od pomračenja
 (Without fearing the eclipse)
 (I. Vince)
 Blic, 30.07.1999, 6.
55. Astronomska početnica
 Četiri godišnja doba
 (Astronomy for beginners
 Four Seasons)
 (M. S. Dimitrijević)
 Politika, 30.07.1999, 39.
56. V. Vujin
 Minut i po koji se čeka ceo vek
 Od sumraka do svitanja
 (The minute and a half awaited a whole century
 From twilight to dawn)
 (M. S. Dimitrijević, L. Č. Popović)
 Kikindske, Kikinda, 30.07.1999, 6.
57. Biblioteka grada Beograda
 Čitaonica Odeljenja umetnosti (Predavanje)
 (Belgrade City Library
 Lecture room of the Art department (Lecture))
 (M. S. Dimitrijević, I. Vince, L. Č. Popović)
 Politika, 1.08.1999, 35.
58. Slobodanka Andrić
 Posle neobične pojave na jugozapadnom nebu
 Verovatno je reč o bolidu

(After an unusual event in the south west sky

Probably a bolide)

(M. S. Dimitrijević)

Politika, 2.08.1999, 19.

59. M. Ivetić

Potpuno pomračenje Sunca - najneobičnija i najljepša astronomska pojava

Cari nbeske predstave

(Total Solar eclipse - the most unusual and beautiful astronomical event

Charms of the celestial show)

(M. S. Dimitrijević)

Večernje novosti, 2.08.1999, pp 1 and 11.

60. Gordana Brkić

Dok je za proroke predstojeće pomračenje Sunca 11. avgusta početak kraja sveta,
naučnici najjavljaju

Spektakl brzinom od 2.500 kilometara na sat

(While for soothsayers the forthcoming 11th August Solar eclipse is the beginning
of the doomsday, scientists announce

A Spectacle at a speed of 2 500 km an hour)

(M. S. Dimitrijević)

Danas, 3.08.1999, 17.

61. B. (Branka) Jakšić

Vatrena lopta koja je prošle subote obasjala Srbiju neformalno najavljuje meteorski
roj Perseida

Meteorska kiša posle pomračenja Sunca

(Fireball which lightened Serbia last Saturday, informally announces the Perseides
meteor swarm

A meteor shower after the Solar eclipse)

(M. S. Dimitrijević)

Politika Ekspres, 4.08.1999, pp. 1 and 6.

62. Slobodanka Andrić

Zasto nastaje pomračenje Sunca

Svakodnevna korist od božanstva

(Why does a Solar eclipse happen

Everyday benefit from the deity)

(I. Vince)

Politika, 4.08.1999, 20.

63. B. (Branka) Jakšić

Ni najbolje naočare nisu za gledanje bez prekida

(Even the best glasses are not to look without a break)

(I. Vince)

Politika Ekspres, 5.08.1999, 6.

64. Kristina Radovanović
 Eklipsa 1999.
 (Eclipse 1999)
 (I. Vince)
 NIN, 5.08.1999, 27.
65. Dr Lazarević
 Naše najsevernije mesto 11. avgusta ulazi u istoriju
 Dibiđus pomrćina uz spricere
 (Our northernmost place on 11th August enters history
 The total darkness with glasses of wine and soda)
 (Istvan Vince)
 Zaštita, August 1999, 6.
66. Astronomska početnica
 De nebeskih tela
 (Astronomy for beginners
 Up to celestial bodies)
 (M. S. Dimitrijević)
 Politika, 6.08.1999, 35.
67. Važno je znati...
 (It is important to know...)
 (Istvan Vince)
 Borba, 6.08.1999, 12.
68. V. Vujin
 Program pomraćenja
 (The programme of the eclipse)
 (M. S. Dimitrijević, L. Č. Popović)
 Kikindske, 6.08.1999, 8.
69. Potpuni mrak u Horgošu
 (A total darkness in Horgoš)
 (Istvan Vince, Georgije Popović)
 Naša Reč, Leskovac, 6.08.1999, 7
70. S. J. Marić
 Časopisi: "Vasiona"
 (Journals: "Vasiona")
 (M. S. Dimitrijević, L. Č. Popović, I. Vince, A. Kubičela)
 Dnevnik, Novi Sad, 6.08.1999.
71. Dragaa Mojović
 Djavoli će pojesti Sunce a andjeli ga spasiti
 (Devils will eat up the Sun, but the angels will save it)
 (Istvan Vince)
 Blic, 8.08.1999, 26.

72. S. A.
Sjajna zvezda iza Mesečevog diska
(A bright star behind the Moon disk)
(Luka Ć. Popović)
Politika. 9.08.1999, 20.
73. B. Jakšić
Šta mogu da vide obični posmatrači pomračenja Sunca dok stručnjaci budu "merili"
ponašanje radio - talasa
Sunčevi plamičci "sagoreli" Rim
(What may see the common observers of the solar eclipse while experts "measure"
the behaviour of the radio - waves
Solar flames "burnt up" Rome)
(Milan S. Dimitrijević, Desanka Šulić)
Politika Ekspres. 9.08.1999. 1 and 6.
74. M. Ivetić
Pomračenje Sunca između nauke i mistike
"Smak sveta" u podne
(Solar eclipse between science and mysticism
"The doomsday" at noon)
(Milan S. Dimitrijević)
Večernje Novosti. 10.08.1999, 12.
75. O. M.
Ukoliko ne bude vedro vreme astronomi tvrde
Doživljaj će gotovo izostati
(Unless there is clear weather astronomers say that
the happening will almost be missing)
(Slobodan Ninković)
Danas, 10.08.1999, 17.
76. D. P.
Kikinda u znaku iščekivanja mraka u podne
Spektakl potpunog pomračenja
(Kikinda in the spirit of waiting for darkness in the noon
Spectacle of total eclipse)
(Georgije Popović)
Glas Javnosti, 11.08.1999, 10.
77. Kamp u Djali
(Camp at Djala)
(Istvan Vince)
Glas Javnosti, 11.08.1999, 10.
78. M. M. - T. M.
Horgoš
Stižu i vračevi

- (Horgoš
The soothsayers arrive too)
(Ištvan Vince)
Večernje novosti, 11.08.1999, 7.
79. S. C.
Televizija "Politika"
O pomračenju Sunca
(Television "Politika"
On the solar eclipse)
(Milan S. Dimitrijević, Miodrag Dačić)
Politika, 11.08.1999, 35.
80. S. C.
Televizija "Politika", danas od 9 časova
O pomračenju Sunca
(Television "Politika", today from 9 o'clock
On the solar eclipse)
(Milan S. Dimitrijević, Miodrag Dačić)
Politika Ekspres, 11.08.1999, 13.
81. S. Andrić
Nedostajće nam sto biliona kilovat-sati energije
(We will miss a hundred trillion kilowatt - hours of energy)
(Ištvan Vince)
Politika, 11.08.1999, 18.
82. Kikinda
Oblaci umanjili doživljaj
(Kikinda
Clouds toned down the happening)
(Milan S. Dimitrijević)
Borba, 12.08.1999, 5.
83. Horgoš
Najduži mrak usred dana
(Horgoš
The longest darkness in the middle of the day)
(Ištvan Vince)
Borba, 12.08.1999, 5.
84. M. M.
Horgoš
(Ištvan Vince)
Večernje Novosti, 12.08.1999, 6.
85. Branka Jakšić
U Horgošu sa najvećom Jugoslovenskom ekspedicijom za posmatranje potpunog pomračenja

Smak Sunčevog svetla ali ne i sveta
(In Horgoš with the largest Yugoslav expedition for the total eclipse observation
The end of the Solar light but not of the world)
(Ištvan Vince)
Politika Ekspres, 12.08.1999, 3.

86. P. Trnić
Lepotu potpunog pomračenja u Kikindi pokvarili oblaci
Doživljaj "odložen" do 2135. godine
(The beauty of the total eclipse spoiled in Kikinda by the clouds
The happening "adjourned" until the year 2135.)
(Milan S. Dimitrijević)
Politika Ekspres, 12.08.1999, 3.
87. Slobodanka Andrić
Meseć poslednji put u ovom milenijumu zaklonio Sunce
Oblaci sakrili žutog patuljka
(The Moon eclipsed the Sun for the last time in this millennium
The yellow dwarf hidden by clouds)
(Ištvan Vince)
Politika, 12.08.1999, 18.
88. Dragoljub Petrović
Totalno pomračenje Sunca u Kikindi
Slobo, vrati nam Sunce
(The total Solar eclipse in Kikinda
Slobo, give us back the Sun!)
(Luka Č. Popović, Milan S. Dimitrijević)
Glas javnosti, 12.08.1999, 10.
89. I. Janković, foto: B. Petrović
Reporteri Borbe prekjuče sa astronomima i stručnjacima za nebeske pojave
Sunce vrati se, sve ti je oprošteno!
(“Borba” reporters the day before yesterday with astronomers and experts for
celestial phenomena
Sun come back, all is forgiven!)
(M. S. Dimitrijević)
Borba, 13.08.1999, 12.
90. Vladislav Vujin
Potpuno naoblačenje (povremeno sa kišom)
Poslednje pomračenje Sunca u starom milenijumu pokvarilo oblačno vreme. Smaka
sveta nije bilo
(Heavy cloudiness (with intermittent raining)
The last Solar eclipse in the past millennium spoiled by cloudy weather. There was
not the end of the world)
(M. S. Dimitrijević, L. Č. Popović, G. Popović)

Kikindske, 13.08.1999. 12.

91. Branka Jakšić
 Utisci i rezultati naučnog posmatranja pomračenja Sunca na nebu iznad Jugoslavije
 Astronomi pobedili magove
 (Impressions and results of the scientific observation of Solar eclipse in the sky over Yugoslavia
 Astronomers defeated the magi)
 (Milan S. Dimitrijević, Ištvan Vince, Edi Bon)
 Ekspres Politika, 14.08.1999. 6.
92. O. Milanović
 Sunčeva nebeska magija
 Mrak u podne, a bez smaka sveta
 (Solar celestial magic
 The darkness at noon, and without the end of the world)
 (Ištvan Vince)
 Ilustrovana Politika, 14.08.1999. 6.
93. Oglas o pokretanju postupka za izbor u zvanje
 (The announcement of starting the election procedure for granting the scientific rank)
 (Gojko Djurašević)
 Politika, 17.08.1999. 31.
94. Dr Milan Dimitrijević:
 Ovo je trebalo da vidimo
 (We should have seen this)
 Komuna, Kikinda, 19.08.1999. 6.
95. Z. M.
 Susreti astronoma
 (Meetings of astronomers)
 (Milan Ćirković)
 Glas Javnosti, 20.08.1999. 9.
96. M. V.
 Beograd pre 60 godina
 Časovnike "navijala" Beogradska opservatorija
 (Belgrade 60 years ago
 Clocks "winded" by the Belgrade Observatory)
 Politika, 28.08.1999. 36.
97. M. Kurepa
 Naučni skup "Elektron - sto godina od otkrića"
 (Scientific meeting "Electron - One hundred years since the discovery)
 (Desanka Šulić)
 Vinča Institute of Nuclear Sciences Bulletin, 1-4/1998, 41.

98. B. B.
 Danas u Skupštini grada
 "Zeleni sto" o ozonskom omotaču
 (Today in the City Assembly
 "The Green Table" on the ozon layer)
 (Milan S. Dimitrijević)
 Politika, 16.09.1999, 24.
99. B. H.
 Sinoć u Skupštini grada
 Održano predavanje "Kontakt sa budućnošću"
 (Last evening in the City Assembly
 The lecture "The contact with the future" given
 (Milan S. Dimitrijević)
 Politika, 17.09.1999, 21.
100. J. M.
 U organizaciji Zelene stranke
 "Kontakt sa budućnošću"
 (Organized by the Green Party
 "The contact with the future"
 (Milan S. Dimitrijević)
 Danas, 17.09.1999, 10.
101. Nikola Božić
 XVII BAV
 (Milan S. Dimitrijević, Luka Č. Popović, Miodrag Dačić, Istvan Vince, Aleksandar Kubičela, Georgije Popović)
 Vasiona No 4 (1999) 110.
102. Milan Jeličić
 Avgustovski astronomski susreti '98
 (August Astronomical meetings '98)
 (Milan Ćirković, Nataša Trajković, Slobodan Ninković)
 Vasiona No 4 (1999) 111.
103. Jelena Milogradov - Turin
 Jubilej Matematičkog fakulteta
 (The Mathematical Faculty Jubilee)
 (Zoran Knežević)
 Vasiona No 4 (1999) 110.
104. J. Mihajlović
 U organizaciji Zelene stranke tribina "Kontakt sa budućnošću"
 Posledice bombardovanja će se nažalost tek videti
 (The tribune "The Contact with the Future" Organized by the Green Party
 The consequences of the bombing will unfortunately only be felt in the future)
 (Milan S. Dimitrijević)

- Danas, 20.09.1999, 10.
105. D. J. Vojnović
 U skupštini grada održan skup posvećen zaštiti ozonskog omotača
 Čovek protiv planete
 (In the City Assembly a meeting was held dedicated to the ozone layer protection
 The man against the planet)
 (Milan S. Dimitrijević)
 Beogradske novine, 24.09.1999, 10.
106. Nikola Obradović
 Izveštaj sa sastanka RK Beograd Stari Grad, održanog 13. oktobra 1999. godine u
 19.30 u Hotelu "Kasina"
 Report on the RC Belgrade Old City meeting, held on 13th October 1999 at 19:30
 in the "Kasina" Hotel
 (Milan S. Dimitrijević)
 Bilten, Rotary Club Beograd Stari Grad, 20.10.1999, 4.
107. Naučni savet Zadužbine Andrejević
 (The Scientific council of the Andrejević Foundation)
 (Milan S. Dimitrijević)
 In: Pet godina Zadužbine Andrejević od 1994. do 1999., Zadužbina Andrejević,
 Beograd 1999, 16th page with no numeration.
108. Biblioteka Dissertatio
 (Milan S. Dimitrijević)
 In: Pet godina Zadužbine Andrejević od 1994. do 1999., Zadužbina Andrejević,
 Beograd 1999, 18th page with no numeration.
109. S. A. (Slobodanka Andrić)
 Povodom tri značajne godišnjice za velikog naučnika
 Simpozijum o Milutinu Milankoviću
 (On the occasion of three important anniversaries of the great scientist
 Symposium on Milutin Milanković)
 Politika, 13. 11. 1999, 19.
110. Život i razum van Zemlje
 (The life and the intellect outside the Earth)
 (Luka Č. Popović)
 Galaksija, No. 288, November 1999, 40.
111. S. Andrić
 Počeo Simpozijum o Milutinu Milankoviću
 Veliki putnik kroz vasionu i vekove
 (The Symposium on Milutin Milanković has started
 The great traveler through the universe and the time)
 Politika, 26. 11. 1999, 21.

112. Branka Jakšić
Astronomi prvi put instrumentima zabeležili kretanje nepoznate planete
Puls života izvan Sunčevog sistema?
(For the first time astronomers recorded with instruments the movement of the
unknown planet
The pulse of life outside the Solar system?)
(Milan S. Dimitrijević)
Ekspres Politika, 5.12.1999, 6.
113. B. (Branka) Jakšić
Profesor dr Milan Dimitrijević, Astronom: "Smaka sveta neće biti"
Kometa u julu 2000. ali samo nad Srbijom
(Professor Dr Milan Dimitrijević, Astronomer: "There will not be the doomsday"
A comet in July 2000 but only over Serbia)
(M. S. Dimitrijević)
Politika Ekspres, 9.12.1999, 6.
114. Blagota Žarković, Editor
Zakon o autorskim i srodnim pravima
(The law on author and kindred rights)
(M. S. Dimitrijević)
Publikacije SZIS No 11, Savezni zavod za intelektualnu svojinu, Beograd, 1998, p.
14.
115. Roger M. Herman
Minutes of the IC/SLS Program Committee
(M. S. Dimitrijević)
Spectral Line Shapes 10, 14th IC/SLS, State College, Pennsylvania, June 1998, ed.
R. M. Herman, AIP Conference Proceedings 467, American Institute of Physics,
Woodbury, New York, 1999, 559.

5. LECTURES HELD BY THE OBSERVATORY FELLOWS AND GUESTS

5.1. LECTURES HELD AT THE ASTRONOMICAL OBSERVATORY

1. 13.10.1999
Desanka Šulić
Promene u jonosferi u toku potpunog pomračenja Sunca
(Changes in Ionosphere during the total Solar eclipse)
2. 20.10.1999
Aleksandar Tomić
Kvantovanje u makroskopskim gravitacionim sistemima
(Quantifying in macroscopic gravitational systems)
3. 3.11.1999
Istvan Vince
Spektroskopska posmatranja za vreme pomračenja Sunca
(Spectroscopic observations during Solar eclipse)
4. 10.11.1999
Slobodan Ninković
Putanje zvezda u odnosu na središte Mlecnog puta
(Star orbits with respect to the Milky way center)

5.2. LECTURES HELD BY THE OBSERVATORY'S FELLOWS OUTSIDE THE ASTRONOMICAL OBSERVATORY

1. 23.01.1999
Istvan Vince
Sunce i njegovo pomračenje
(The Sun and its eclipse)
Workers' university, Subotica
2. 23.01.1999
Istvan Vince
Pomračenje Sunca
(Solar eclipse)
Annual assembly of education officials of Vojvodina, Subotica
3. 30.01.1999
Ljiljana Skuljan
What we know about the Universe?
Aero klub (Zouta club), Christchurch, New Zealand.

4. 5.02.1999
Istvan Vince
Pomračenje Sunca 1999. godine
(The 1999 Solar eclipse)
Kolarac People's University, Belgrade
5. 12.02.1999
Luka Č. Popović
Kako dolazi do pomračenja Sunca
(How a Solar eclipse occurs)
Kolarac People's university, Belgrade
6. 16.02.1999
Luka Č. Popović
Pomračenje Sunca u Kikindi 1999.
(Solar eclipse 1999 in Kikinda)
House of youth, Kikinda
7. 26.02.1999
Milan M. Ćirković
Nastanak strukture u kosmosu
(The structure origin in the Universe)
The Winter Seminar Astronomy 2, Petnica.
8. 25.03.1999
Milan S. Dimitrijević
Fulerenes in astrophysics
Hvezdarna a Planetarium
Brno, Czech Republic
9. 6.06.1999
Silvana Nikolić
A multi-wavelength study of the dark cloud L1274
Observatory of the University of Helsinki
Helsinki, Finland
10. 12.06.1999
Luka Č. Popović
Pomračenje Sunca 11.08.1999. godine
(The 11th August 1999 Solar eclipse)
Faculty of Sciences, Banja Luka
11. 17.06.1999
Milan S. Dimitrijević
Konačna sudbina vasione
(Final fate of the Universe)
Narodna biblioteka (National Library) "Jovan Popović", Kikinda

12. 18.06.1999
Ištvan Vince
U susret potpunom pomračenju Sunca 11. avgusta 1999.
(Towards the 11. August 1999 total Solar eclipse)
XVII Belgrade Astronomical Weekend
13. 18.06.1999
Luka Č. Popović
Pomračenje Sunca i istorijski događaji
(Solar eclipse and historical events)
XVII Belgrade Astronomical Weekend
14. 18.06.1999
Aleksandar Kubićela, Jelena Milogradov - Turin, Georgije Popović
Kako smo posmatrali pomračenje od 15. februara 1961.
(How we observed 15 February 1961 eclipse)
XVII Belgrade Astronomical Weekend
15. 17.06.1999
Milan S. Dimitrijević
Milutin Milanković i tajna ledenih doba
(Milutin Milanković and the secret of ice ages)
XVII Belgrade Astronomical Weekend
16. 13.07.1999
Ištvan Vince
Pomračenje Sunca
(Solar eclipse)
Session of Mountain Climbers Society "Pobeda"
17. 14.07.1999
Milan S. Dimitrijević
Potpuno pomračenje Sunca 11. 08. 1999
(11th August 1999 Total Solar Eclipse)
Rotary Club Belgrade - Old City
18. 14.07.1999
Goran Damljanović
Los actividades desarrolladas en el Observatorio de Belgrado
(The Activities of Belgrade Astronomical Observatory)
Universidad Nacional de la Plata, Facultad de Ciencias Astronomicas y Geofisicas,
La Plata, Argentina
19. 16.07.1999
Goran Damljanović
Análisis de datos astrometricos obtenidos en los Observatorios de Belgrado y de
La Plata
(The Analysis of the astrometrical data obtained at Belgrade and La Plata Observ-
atories)

Universidad Nacional de la Plata, Facultad de Ciencias Astronomicas y Geolicas,
La Plata, Argentina

20. 30.07.1999
Ištvan Vince
Pomračenje Sunca
(Solar eclipse)
Hous of Culture, Mali Idjoš
21. 3.08.1999
Milan S. Dimitrijević
Sunce naša zvezda - u susret pomračenju
(The Sun our star - toward the eclipse)
Belgrade City Library
22. 4.08.1999
Ištvan Vince
Kako bezbedno posmatrati pomračenje Sunca
(How safely to observe eclipse)
Belgrade City Library
23. 5.08.1999
Luka Č. Popović
Kako i zašto dolazi do pomračenja Sunca
(How and why an eclipse takes place)
Belgrade City Library
24. 5.08.1999
Milan S. Dimitrijević
Potpuno pomračenje Sunca 11. 08. 1999
(11th August 1999 Total Solar Eclipse)
Secondary school "Nikola Tesla", Apatin
25. 6.08.1999
Milan S. Dimitrijević, Luka Č. Popović
Potpuno pomračenje Sunca 11. 08. 1999
(11th August 1999 Total Solar Eclipse)
National Theatre, Kikinda
26. 7.08.1999
Luka Č. Popović
Potpuno pomračenje Sunca 11. 08. 1999
(11th August 1999 Total Solar Eclipse)
Planetarium, Belgrade
27. 9.08.1999
Zorica Cvetković
U susret pomračenju Sunca
(Toward the Solar eclipse)

Municipal Community "Leštane"

28. 9.08.1999
Luka Č. Popović
Pomračenje Sunca
(Solar eclipse)
NIS Naftagas, Novi Sad
29. 9.08.1999
Luka Č. Popović
O pomračenju Sunca 11.08.1999
(On the 11th August 1999 Solar eclipse)
Society of Engineers and Technicians, Zrenjanin
30. 10.08.1999
Miodrag Dačić
U susret pomračenju
(Towards the eclipse)
Tribune of Young Socialist, Planetarium, Beograd
31. 10.08.1999
Milan S. Dimitrijević, Luka Č. Popović
U susret pomračenju
(Toward the eclipse)
Hous of Youth, Kikinda
32. 10.08.1999
Milan S. Dimitrijević, Luka Č. Popović
Potpuno pomračenje Sunca
(Total Solar Eclipse)
Main city square, Kikinda
33. 10.08.1999
Ištvan Vince
Pomračenje Sunca
(Solar eclipse)
Hous of culture, Horgos
34. 11.08.1999
Milan S. Dimitrijević, Luka Č. Popović, Petar Vuca
Praćenje potpunog pomračenja Sunca 11. 08. 1999
(Tracking of the 11th August 1999 Total Solar Eclipse)
Space in front of the Foundry, Kikinda
35. 11.08.1999
Istvan Vince
Praćenje potpunog pomračenja Sunca 11. 08. 1999
(Tracking of the 11th August 1999 Total Solar Eclipse)
Horgos

36. 21.08.1999
 Luka Č. Popović
 Mogućnost života u Sunčevom sistemu
 (The possibility of life in the Solar system)
 Summer astronomical meetings: "Life and consciousness outside the Earth", Planetarijum, Beograd
37. 27.08.1999
 Milan S. Dimitrijević
 Budućnost univerzuma i perspektiva razumnog života
 (The future of the universe and prospects of conscious life)
 Summer astronomical meetings: "Life and consciousness outside the Earth", Planetarijum, Beograd
38. 4.09.1999
 Nenad Milovanović
 Komunikacija sa vanzemaljskim razumom
 (The communication with the extraterrestrial intellect)
 Summer astronomical meetings: "Life and consciousness outside the Earth", Planetarijum, Beograd
39. 4.09.1999
 Luka Č. Popović
 Planetarni sistemi oko drugih zvezda
 (Planetary systems around other stars)
 Summer astronomical meetings: "Life and consciousness outside the Earth", Planetarijum, Beograd
40. 11.09.1999
 Milan M. Ćirković
 Antropičko načelo i vanzemaljske civilizacije
 (The anthropical principle and extraterrestrial civilizations)
 Summer astronomical meetings: "Life and consciousness outside of Earth", Planetarijum, Beograd
41. 16.09.1999
 Milan S. Dimitrijević, Vojislav Vasić, Radmilo Rončević
 "Kontakt sa budućnošću": "Zeleni sto" o ozonskom omotaču
 ("The contact with the future": "The Green Table" on ozon layer)
 The Belgrade city Assembly
42. 18.09.1999
 Vojislava Protić-Benišek
 Astrometrija i značaj posmatranja pomračenja Sunca
 (Astrometry and the importance of Solar eclipse observations)
 Petnica

13. 18.10.1999
 Milan M. Ćirković
 Kompleksnost i antropički princip
 (Complexity and antropic principle)
 Exploratorium, Petnica
44. 22. 10. 1999
 Luka Ć. Popović
 Planete Sunčevog sistema
 (Planets of the Solar system)
 Pedagogical Academy, Vršac
15. 27.11.1999
 Radljanje savremene kosmologije
 (The birth of the modern cosmology)
16. 10.12.1999
 Milan S. Dimitrijević
 Astronomija na kraju dvadesetog veka
 (Astronomy at the end of the twentieth century)
 Narodna biblioteka (National Library) "Jovan Popović", Kikinda
17. 20.12.1999
 Slobodan Jankov
 Doppler Imaging of velocity fields in stellar atmospheres
 Instituto de Astrofisica de Canarias
48. 23.12.1999
 Luka Ć. Popović
 Zanimljiva Vasiona
 (The interesting Universe)
 Army Club (Dom armije), Zajecar

6. TV AND RADIO EMISSIONS

1. Nezvanična verzija
(Kada počinje treći milenijum)
M. S. Dimitrijević
TV BK, 15.01.1999, 21h18m-21h36m
Unofficial version
(When the third millennium starts)
M. S. Dimitrijević
TV BK, 15.01.1999, 21h18m-21h36m
2. "Chip" - Novosti u astronomskim istraživanjima (Ištvan Vince, voditelj Jožef Vereš
(József Vörös)
Radio program Novosadske televizije, 17h - 17h 30m na 90.5 MHz i 92.5 MHz,
27.01.1999.
"Chip" - News in astronomical researches Ištvan Vince, emission host Jožef Vereš
(József Vörös)
Radio program of the Novi Sad TV, 17h - 17h 30m na 90.5 MHz i 92.5 MHz,
27.01.1999.
3. NIT (Nauka i Tehnologija) magazin
(O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević
TV Beograd II, 9.02.1999 22h15m
NIT (Science and Technology Magazine)
(On total Solar eclipse on 11.08.1999)
M. S. Dimitrijević
TV Beograd II, 9.02.1999 22h15m
4. Nauka i Tehnologija
(O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević
TV Beograd I, 23.02.1999 21h55m
Science and Technology
(On total Solar eclipse on 11.08.1999)
M. S. Dimitrijević
TV Beograd I, 23.02.1999 21h55m
5. "Chip" - Novosti u astronomskim istraživanjima (Ištvan Vince, voditelj Jožef Vereš
(József Vörös)
Radio program Novosadske televizije, 17h - 17h 30m na 90.5 MHz i 92.5 MHz,
24.02.1999.

- "Chip" - News in astronomical researches Istvan Vince, emission host Jozef Veres (József Vörös)
 Radio program of the Novi Sad TV, 17h - 17h 30m na 90.5 MHz i 92.5 MHz.
 24.02.1999.
6. Program za mlade
 (O potpunom pomračenju Sunca 11.08.1999)
 M. S. Dimitrijević, voditelj Marija Mišić
 Radio Beograd I, 8.03.1999 9h
 Programme for the young
 (On total Solar eclipse 11.08.1999)
 M. S. Dimitrijević, emission host Marija Mišić
 Radio Beograd I. 8.03.1999 9h
7. Repriza serije "Sunce naša zvezda", autor scenarija i voditelj Milan S. Dimitrijević.
 TV Beograd: I emisija "Priča o Suncu": 10.V.1999, II emisija "Panorama pojava na Suncu" 11.V.1999, III emisija "Atmosfera Sunca" 12.V.1999, IV emisija "Uticao Sunca na Zemlju" 13.V.1999
 Four-parts series "Sun our star", the author of scenario and emission host Milan S. Dimitrijević, TV Belgrade I: I part "Story about Sun": 10.V.1999, II part "Panorama of phenomena on the Sun" 11.V.1999, II part "Atmosphere of the Sun" 12.V.1999, IV part "Solar influence on the Earth" 13.V.1999.
8. Od 1. jula do kraja godine Miodrag Dačić je davao obdanice u Jutarnjem programu Radio Subotice
 From 1 of July up to the end of the year, M. Dačić supplied data on the length of day and night, for the Morning Programme of Radio Subotica
9. Muzika koju volim
 (O astronomiji i o potpunom pomračenju Sunca 11.08.1999)
 V. Protić - Benišek
 TV Beograd II. 6.07.1999
 Music I love
 (On astronomy and on total Solar eclipse on 11.08.1999)
 V. Protić - Benišek
 TV Beograd II, 6.07.1999
10. Jutarnji program
 (O potpunom pomračenju Sunca 11.08.1999)
 I. Vince
 TV BK. 7.07.1999, 7h20m
 Morning Programme
 (On total Solar eclipse on 11.08.1999)
 I. Vince
 TV BK, 7.07.1999, 7h20m

11. Repriza serije Astronomska početnica
TV Beograd 1, Pogled u nebo 9. 07. 1999; Nebeske koordinate 16. 07. 1999; Merenje vremena 23. 07. 1999; Revolucija Zemlje i kalendar 30. 07. 1999; Kako su izmerene daljine do nebeskih tela 6. 08. 1999; Mesec 13. 08. 1999; Od Merkura do Jupitera 20. 07. 1999; Pogled preko stare granice 27. 08. 1999.
Reproduction of the series Astronomy for beginners
TV Belgrade 1, A look at the sky 9. 07. 1999; Celestial coordinates 16. 07. 1999; Measurement of time 23. 07. 1999; Revolution of the Earth and the calendar 30. 07. 1999; How distances to celestial bodies have been measured 6. 08. 1999; Moon 13. 08. 1999; From Mercury to Jupiter 20. 08. 1999; A look across the old border 27. 08. 1999.
12. Jutarnji program
(O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević
TV Beograd I, 18.07.1999
Morning Programme
(On total Solar eclipse on 11.08.1999)
M. S. Dimitrijević
TV Beograd I, 18.07.1999
13. Jutarnji program
(O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević
Radio Smederevo, 26.07.1999 9h14m
Morning Programme
(On total Solar eclipse on 11.08.1999)
M. S. Dimitrijević
Radio Smederevo, 26.07.1999 9h14m
14. Informativni program
(O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević
TV Subotica, 26.07.1999 19h
Informative Programme
(On total Solar eclipse on 11.08.1999)
M. S. Dimitrijević
TV Subotica, 26.07.1999 19h
15. Telefakt,
(O potpunom pomračenju Sunca 11.08.1999, Konferencija za štampu zajedno sa putničkom agencijom "Magelan" i sa proizvođačem zaštitnih naočara "First production")
M. S. Dimitrijević
TV BK, 26.07.1999, 15h 55m and 18h 55m.
Telefakt

(On total Solar eclipse on 11.08.1999, Press conference jointly with the travel agency "Magelan" and the producer of protective glasses "First production")

M. S. Dimitrijević

TV BK, 26.07.1999, 15h 55m and 18h 55m.

16. Zašto tako

(O potpunom pomračenju Sunca 11.08.1999)

I. Vince

TV Beograd III, 27.07.1999

Why in such a way

(On total Solar eclipse 11.08.1999)

I. Vince

TV Beograd III, 27.07.1999

17. Jutarnji program.

(O potpunom pomračenju Sunca 11.08.1999, Konferencija za štampu zajedno sa putničkom agencijom "Magelan" i sa proizvođačem zaštitnih naočara "First production")

M. S. Dimitrijević

TV Studio B, 27.07.1999

Morning Programme

(On total Solar eclipse on 11.08.1999, Press conference jointly with the travel agency "Magelan" and the producer of protective glasses "First production")

M. S. Dimitrijević

TV Studio B, 27.07.1999

18. O potpunom pomračenju Sunca 11.08.1999

Aleksandar Kubičela

Radio JAT, 28.07.1999, 17h

On 11th August 1999 total Solar eclipse

Aleksandar Kubičela

Radio JAT, 28.07.1999, 17h

19. Beogradska razglednica

(O potpunom pomračenju Sunca 11.08.1999)

M. S. Dimitrijević

Radio program Studija B, 29.07.1999 8h 30m -9h

Belgrade Picture Card

(On total Solar eclipse on 11.08.1999)

M. S. Dimitrijević

Radio programme of the Studio B, 29.07.1999 8h 30m -9h

20. O potpunom pomračenju Sunca 11.08.1999

Miodrag Dačić

Radio Novosti, 29.07.1999, 9h - 10h

On 11th August 1999 total Solar eclipse

Miodrag Dačić

Radio Novosti, 29.07.1999, 9h - 10h

21. Jutarnji program

(O potpunom pomračenju Sunca 11.08.1999 i o specijalnom broju Vasiona posvećenom ovom događaju)

M. S. Dimitrijević

TV BK, 30.07.1999, 8h 15m.

Morning Programme

(On total Solar eclipse on 11.08.1999 and on special issue of "Vasiona" dedicated to this event)

M. S. Dimitrijević

TV BK, 30.07.1999, 8h 15m.

22. O potpunom pomračenju Sunca 11.08.1999 i o ranijim pomračenjima

J. Arsenijević

TV Studio B, 30.07.1999.

On total Solar eclipse on 11.08.1999 and on previous eclipses

J. Arsenijević

TV Studio B, 30.07.1999.

23. Muzika, turizam, muzika

(O potpunom pomračenju Sunca 11.08.1999, Snimljeno na konferenciji za štampu zajedno sa putničkom agencijom "Magelan" i sa proizvođačem zaštitnih naočara "First production")

M. S. Dimitrijević

Radio Beograd I, 31.07.1999, 9h-11h

Music, Tourism, Music

(On total Solar eclipse on 11.08.1999, Taped at the Press conference jointly with the travel agency "Magelan" and the producer of protective glasses "First production")

M. S. Dimitrijević

Radio Beograd I, 31.07.1999, 9h-11h

24. Reporter

(O potpunom pomračenju Sunca 11.08.1999)

M. S. Dimitrijević, L. Č. Popović, A. Kubičela, I. Vince

Radio Beograd I, 31.07.1999, 12h 15m - 13h

Reporter

(On total Solar eclipse on 11.08.1999)

M. S. Dimitrijević, L. Č. Popović, A. Kubičela, I. Vince

Radio Beograd I, 31.07.1999, 12h 15m - 13h

25. Nedeljno popodne

(O potpunom pomračenju Sunca 11.08.1999)

Miodrag Dačić

TV Sat, Požarevac, 1.08.1999

Sunday Afternoon

(On 11th August 1999 total Solar eclipse)

- Miodrag Dačić
TV Sat, Požarevac, 1.08.1999
26. Jutarnji program
(O potpunom pomračenju Sunca 11.08.1999)
Aleksandar Kubičela, Istvan Vince
TV Beograd I, 1.08.1999
Morning program
(On 11th August 1999 total Solar eclipse)
Aleksandar Kubičela, Istvan Vince
TV Beograd I, 1.08.1999
27. Informativni program
(O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević
TV S, Varvarin, 1.08.1999 19h
Informative Programme
(On total Solar eclipse on 11.08.1999)
M. S. Dimitrijević
TV S, Varvarin, 1.08.1999 19h
28. (O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević
Radio Siti, Beograd, 2.08.1999 8h 30m - 9h 15m
(On 11th August 1999 total Solar eclipse)
M. S. Dimitrijević
Radio City, Beograd, 2.08.1999 8h 30m - 9h 15m
29. Preporuka građanima da posmatraju pomračenje Sunca 11.08.1999
J. Arsenijević
TV Studio B, 2.08.1999.
Recommendation to the citizens to observe the 11th August 1999 total Solar eclipse
J. Arsenijević
TV Studio B, 2.08.1999.
30. Informativni program
(Meteorski roj Perseida)
M. S. Dimitrijević
TV S, Varvarin, 3.08.1999 19h
Informative Programme
(Perseid meteor swarm)
M. S. Dimitrijević
TV S, Varvarin, 3.08.1999 19h
31. Informativni program
(O pomračenju Sunca 11.08.1999)
L. Č. Popović
SRT Banjaluka, 3.08.1999 20h

Informative Programme
(On the 11th August 1999 Solar eclipse)
L. Č. Popović
SRT Banjaluka, 3.08.1999 20h

32. Zeleni prsten
(O pomračenju Sunca 11.08.1999)
L. Č. Popović
TV Beograd II, 3.08.1999 20h
The green ring
(On the 11th August 1999 Solar eclipse)
L. Č. Popović
TV Beograd II, 3.08.1999 20h
33. Jutarnji program
(O potpunom pomračenju Sunca 11.08.1999)
Miodrag Dačić
TV Studio B, Beograd, 3.08.1999
Morning program
(On the 11th August 1999 total Solar eclipse)
Miodrag Dačić
TV Studio B, Beograd, 3.08.1999
34. Naučni program
(Izjava o potpunom pomračenju Sunca 11.08.1999)
I. Vince
Rumunski radio, 5.08.1999, 20h
Scientific Programme
(Statement on the 11th August 1999 total Solar eclipse)
I. Vince
Romanian radio, 5.08.1999, 20h
35. Jutarnji program
(O potpunom pomračenju Sunca 11.08.1999)
Nataša Stanić
TV Beograd I, 5.08.1999
Morning program
(On the 11th August 1999 total Solar eclipse)
Nataša Stanić
TV Beograd I, 5.08.1999
36. Sto linija
(O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević
RTV Krajina, Negotin, 6.08.1999 20h- 21h 30m
Hundred lines
(On total Solar eclipse on 11.08.1999)

- M. S. Dimitrijević
RTV Krajina, Negotin, 6.08.1999 20h- 21h 30m
37. Nedeljno popodne
(O potpunom pomračenju Sunca 11.08.1999)
Miodrag Dačić
TV Sat, Požarevac, 6.08.1999., repriza
Sunday afternoon
(On the 11th August 1999 total Solar eclipse)
Miodrag Dačić
TV Sat, Požarevac, 6.08.1999, Replay
38. Jutarnji program
(O potpunom pomračenju Sunca 11.08.1999)
I. Vince
TV BK, 6.08.1999, 8h10m
Morning Programme
(On total Solar eclipse on 11.08.1999)
I. Vince
TV BK, 6.08.1999, 8h10m
39. Potpuno pomračenje Sunca 11.08.1999
Nataša Stanić, Tatjana Milovanov, Predrag Jovanović, Nataša Popović
Radio Kikinda, 7.08.1999, 17h30m - 18h30m
The 11th August 1999 total Solar eclipse
Nataša Stanić, Tatjana Milovanov, Predrag Jovanović, Nataša Popović
Radio Kikinda, 7.08.1999, 17h30m - 18h30m
40. Šta da se radi
(O pomračenju Sunca 11.08.1999)
L. Č. Popović
Radio Beograd II, 7.08.1999 9h-12h
What is to be done
(On the 11th August 1999 Solar eclipse)
L. Č. Popović
Radio Beograd II, 7.08.1999 9h-12h
41. Jutarnji program
(O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević, L. Č. Popović
TV Beograd I, 7.08.1999
Morning Programme
(On total Solar eclipse on 11.08.1999)
M. S. Dimitrijević
TV Beograd I, 7.08.1999
42. TV Dnevnik 2
(O potpunom pomračenju Sunca 11.08.1999)

- M. S. Dimitrijević, L. Č. Popović
TV Beograd 1, 8.08.1999 19h 30m
TV Diary 2
(On total Solar eclipse on 11.08.1999)
M. S. Dimitrijević, L. Č. Popović
TV Beograd 1, 8.08.1999 19h 30m
13. Informativni program
(O pomračenju Sunca 11.08.1999)
L. Č. Popović
TV Krajina, Zaječar, 8.08.1999 19h
Informative program
(On the 11th August 1999 Solar eclipse)
L. Č. Popović
TV Krajina, Zaječar, 8.08.1999 19h
14. Program za mlade: Poštovana deco
(O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević, N. Stanić, voditelj Marija Mišić
Radio Beograd I, 8.08.1999 13h 15m - 14h
Programme for the young: Honorable children
(On the total Solar eclipse on 11.08.1999)
M. S. Dimitrijević, N. Stanić, emission host Marija Mišić
Radio Beograd I, 8.08.1999 13h 15m - 14h
45. Slike iz naučne radionice: U senci eklipse
M. S. Dimitrijević, L. Č. Popović, A. Kubičela, I. Vince
TV Beograd I, 9.08.1999, 13h 5m - 13h 34m
(Pictures from the scientific workshop: In the shadow of the eclipse)
M. S. Dimitrijević, L. Č. Popović, A. Kubičela, I. Vince
TV Beograd I, 9.08.1999, 13h 5m - 13h 34m
16. BK Parlament
(O potpunom pomračenju Sunca 11.08.1999. U emisiji zajedno sa direktorom ZOO vrta i jednim astrologom)
Miodrag Dačić
TV BK, Beograd, 9.08.1999, 19^h30^m
BK Parliament
(On 11th August 1999 total Solar eclipse. In emission jointly with the director of the Belgrade ZOO and an astrologer)
Miodrag Dačić
TV BK, Beograd, 9.08.1999, 19^h30^m
47. Mozaik 904
(O potpunom pomračenju Sunca 11.08.1999)
M. S. Dimitrijević
Radio Crne Gore I, 9.08.1999, 9h - 12h

- (Mosaic 904
 On total Solar eclipse on 11.08.1999)
 M. S. Dimitrijević
 Radio Montenegro I, 9.08.1999, 9h - 12h
48. O potpunom pomračenju Sunca 11.08.1999
 M. S. Dimitrijević
 Radio S. Varvarin, 9.08.1999, 13h
 On the total Solar eclipse on 11.08.1999
 M. S. Dimitrijević
 Radio S, Varvarin, 9.08.1999, 13h
49. O potpunom pomračenju Sunca 11.08.1999
 M. S. Dimitrijević
 Radio Bačka Palanka, 9.08.1999, 11h - 11h 30m
 On the total Solar eclipse on 11.08.1999
 M. S. Dimitrijević
 Radio Bačka Palanka, 9.08.1999, 11h - 11h 30m
50. O potpunom pomračenju Sunca 11.08.1999
 M. S. Dimitrijević
 Radio Kikinda, 9.08.1999, 17h
 (On the total Solar eclipse on 11.08.1999)
 M. S. Dimitrijević
 Radio Kikinda, 9.08.1999, 17h
51. O potpunom pomračenju Sunca 11.08.1999
 Aleksandar Kubičela, Miodrag Dačić, Ištvan Vince
 TV Beograd III, 9.08.1999, 21h30m
 On the 11th August 1999 total Solar eclipse
 Aleksandar Kubičela, Miodrag Dačić, Ištvan Vince
 TV Beograd III, 9.08.1999, 21h30m
52. Informativni program
 (O pomračenju Sunca 11.08.1999)
 Miodrag Dačić
 Radio Arilje, 9.08.1999
 Informative program
 (On the 11th August 1999 Solar eclipse)
 Miodrag Dačić
 Radio Arilje, 9.08.1999
53. Informativni program
 (O pomračenju Sunca 11.08.1999)
 L. Č. Popović
 Radio Zrenjanin, 9.08.1999
 Informative program
 (On the 11th August 1999 Solar eclipse)

L. Č. Popović

Radio Zrenjanin, 9.08.1999

54. O potpunom pomračenju Sunca 11.08.1999

Slobodan Ninković

Radio Indeks, Beograd, 10.08.1999, 23h - 24h

On the total Solar eclipse on 11.08.1999

Slobodan Ninković

Radio Index, Beograd, 10.08.1999, 23h - 24h

55. Informativni program

(O pomračenju Sunca 11.08.1999)

Miodrag Dačić

Radio Slobodna Evropa, 10.08.1999

Informative program

(On the 11th August 1999 Solar eclipse)

Miodrag Dačić

Radio Free Europe, 10.08.1999

56. Beogradski program

(O pomračenju Sunca 11.08.1999)

Miodrag Dačić

TV Beograd I, 10.08.1999

Informative program

(On the 11th August 1999 Solar eclipse)

Miodrag Dačić

TV Beograd I, 10.08.1999

57. Jutarnji program

(O pomračenju Sunca 11.08.1999)

Miodrag Dačić

TV Studio B, Beograd, 10.08.1999, 9h

Morning program

(On the 11th August 1999 Solar eclipse)

Miodrag Dačić

TV Studio B, Beograd, 10.08.1999, 9h

58. BK Parlament

(O potpunom pomračenju Sunca 11.08.1999. U emisiji zajedno sa direktorom ZOO vrta i jednim astrologom)

Miodrag Dačić

TV BK, Beograd, 10.08.1999, repriza

BK Parliament

(On 11th August 1999 total Solar eclipse. In emission jointly with the director of the Belgrade ZOO and an astrologer)

Miodrag Dačić

TV BK, Beograd, 10.08.1999, Reproduction

59. Informativni program
 (O pomračenju Sunca 11.08.1999)
 L. Č. Popović
 Radio Zrenjanin, 10.08.1999
 Informative program
 (On the 11th August 1999 Solar eclipse)
 L. Č. Popović
 Radio Zrenjanin, 10.08.1999
60. Jutarnji program
 (O potpunom pomračenju Sunca 11.08.1999 i o pripremama ekspedicije Astronom-
 ske opservatorije)
 G. Popović, N. Popović, T. Milovanov, P. Jovanović, N. Stanić, M. S. Dimitrijević,
 L. Č. Popović
 Radio Kikinda, 10.08.1999, 9h - 10h
 Morning Programme
 (On the 11th August 1999 total Solar eclipse and on preparations of the Belgrade
 Astronomical Observatory expedition)
 G. Popović, N. Popović, T. Milovanov, P. Jovanović, N. Stanić, M. S. Dimitrijević,
 L. Č. Popović
 Radio Kikinda, 10.08.1999, 9h - 10h
61. O potpunom pomračenju Sunca 11.08.1999
 Aleksandar Kubičela, Miodrag Dačić, Ištvan Vince
 TV Beograd III, 10.08.1999, repriza
 On the 11th August 1999 total Solar eclipse
 Aleksandar Kubičela, Miodrag Dačić, Ištvan Vince
 TV Beograd III, 10.08.1999, Replay
62. O potpunom pomračenju Sunca 11.08.1999
 M. S. Dimitrijević
 Radio Bačka Palanka, 10.08.1999
 On the total Solar eclipse on 11.08.1999
 M. S. Dimitrijević
 Radio Bačka Palanka, 10.08.1999
63. Srbijo, dobro jutro
 (O pomračenju Sunca 11.08.1999)
 Miodrag Dačić
 Radio Beograd I, 11.08.1999, 7h30m
 Good morning Serbia
 (On the 11th August 1999 Solar eclipse)
 Miodrag Dačić
 Radio Beograd I, 11.08.1999, 7h30m
64. Jutarnji program
 (O pomračenju Sunca 11.08.1999)

Miodrag Dačić

TV Studio B, 11.08.1999, 8h30m

Morning program

(On the 11th August 1999 Solar eclipse)

Miodrag Dačić

TV Studio B, 11.08.1999, 8h30m

65. Izjava u toku pomračenja

Miodrag Dačić

Radio Beograd I, 11.08.1999, 12h30m

The statement in the course of the eclipse

Miodrag Dačić

Radio Beograd I, 11.08.1999, 12h30m

66. Beogradski program

(Izjava o pomračenju Sunca 11.08.1999)

Miodrag Dačić

TV Beograd I, 11.08.1999, 18h30m

Belgrade Program

(The statement on the 11th August 1999 Solar eclipse)

Miodrag Dačić

TV Beograd I, 11.08.1999, 18h30m

67. Jutarnji program

(O instrumentima za praćenje pomračenja i planiranom programu posmatranja)

Nataša Stanić

TV Beograd I, 11.08.1999

Morning Programme

(On instruments for tracking the eclipse and on the planned program of observation) Nataša Stanić

TV Beograd I, 11.08.1999

68. O pripremama za posmatranje pomračenja

Nataša Stanić

Radio Beograd II, 11.08.1999, 10h30m

On preparations for eclipse observation

Natasa Stanić

Radio Beograd II, 11.08.1999, 10h30m

69. Informativni program

(O pomračenju Sunca 11.08.1999)

Z. Cvetković

Radio Kraljevo, 11.08.1999

Informative Program

(On the 11th August 1999 Solar eclipse)

Z. Cvetković

Radio Kraljevo, 11.08.1999

70. O potpunom pomračenju Sunca 11.08.1999
 M. S. Dimitrijević, L. Č. Popović, I. Vince, G. Popović, N. Popović
 TV Ritam, Pančevo, 10.08.1999
 (On the total Solar eclipse on 11.08.1999)
 M. S. Dimitrijević, L. Č. Popović, I. Vince, G. Popović, N. Popović
 TV Rhythm, Pančevo, 10.08.1999
71. Dan
 (O potpunom pomračenju Sunca 11.08.1999)
 M. S. Dimitrijević, M. Dačić
 TV Politika, 10.08.1999 22h
 (Day
 On the total Solar eclipse on 11.08.1999)
 M. S. Dimitrijević, M. Dačić
 TV Politika, 10.08.1999 22h
72. Dan
 (O potpunom pomračenju Sunca 11.08.1999)
 M. S. Dimitrijević, M. Dačić
 TV Politika, 11.08.1999 repriza u 9h i 22h
 (Day
 On the total Solar eclipse on 11.08.1999)
 M. S. Dimitrijević, M. Dačić
 TV Politika, 11.08.1999 Replay 9h and 22h
73. U susret pomračenju
 M. S. Dimitrijević
 TV Montena, Podgorica, 11.08.1999, 11h 30m - 14h 30m
 (Toward the eclipse)
 M. S. Dimitrijević
 TV Montena, Podgorica, 11.08.1999, 11h 30m - 14h 30m
74. O potpunom pomračenju Sunca 11.08.1999
 M. S. Dimitrijević
 Radio Bačka Palanka, 11.08.1999
 On the total Solar eclipse on 11.08.1999
 M. S. Dimitrijević
 Radio Bačka Palanka, 11.08.1999
75. (O potpunom pomračenju Sunca 11.08.1999)
 M. S. Dimitrijević
 Radio Siti, Beograd, 11.08.1999, u toku pomračenja
 (On the total Solar eclipse on 11.08.1999)
 M. S. Dimitrijević
 Radio City, Beograd, 11.08.1999 during the eclipse
76. Prenos pomračenja
 Aleksandar Kubičela, Miodrag Dačić

TV BK, 11.08.1999.

TV Transmission of the Solar eclipse

Aleksandar Kubičela, Miodrag Dačić

TV BK, 11.08.1999

77. Vreme razonode

(O potpunom pomračenju Sunca 11.08.1999)

M. S. Dimitrijević

Radio Beograd I, 11.08.1999.

The time of leisure

(On the total Solar eclipse on 11.08.1999)

M. S. Dimitrijević

Radio Beograd I, 11.08.1999.

78. O potpunom pomračenju Sunca 11.08.1999

M. S. Dimitrijević

Radio Beograd I, 11.08.1999

On the total Solar eclipse on 11.08.1999

M. S. Dimitrijević

Radio Beograd I, 11.08.1999

79. O potpunom pomračenju Sunca 11.08.1999

M. S. Dimitrijević

Radio Novosti, Beograd, 11.08.1999

On the total Solar eclipse on 11.08.1999

M. S. Dimitrijević

Radio Novosti, Beograd, 11.08.1999

80. Prenos pomračenja Sunca

M. S. Dimitrijević, L. Č. Popović, S. Ninković

TV Beograd I, 11.08.1999, 11h - 14h 30m

(TV Transmission of the Solar eclipse)

M. S. Dimitrijević, L. Č. Popović, S. Ninković

TV Beograd I, 11.08.1999, 11h - 14h 30m

81. TV Dnevnik 2

(O potpunom pomračenju Sunca 11.08.1999)

M. S. Dimitrijević, L. Č. Popović

TV Beograd I, 11.08.1999 19h 30m

TV Diary 2

(On the total Solar eclipse on 11.08.1999)

M. S. Dimitrijević, L. Č. Popović

TV Beograd I, 11.08.1999 19h 30m

82. Srbija danas

(O potpunom pomračenju Sunca 11.08.1999)

M. S. Dimitrijević, L. Č. Popović, G. Popović, N. Stanić, N. Popović

TV Beograd I, 14.08.1999 12h 15m - 14h

Serbia Today

(On the total Solar eclipse on 11.08.1999)

M. S. Dimitrijević, L. Č. Popović, G. Popović, N. Stanić, N. Popović

TV Beograd 1, 14.08.1999 12h 15m - 14h

83. Zov prirode

(O potpunom pomračenju Sunca 11.08.1999)

M. S. Dimitrijević, L. Č. Popović

TV Kikinda, 14.08.1999

(Call of the nature

On the total Solar eclipse on 11.08.1999)

M. S. Dimitrijević, L. Č. Popović

TV Kikinda, 14.08.1999

84. Ipak se okreće

(U oči polaska na mesto posmatranja potpunog pomračenja Sunca 11.08.1999)

M. S. Dimitrijević, L. Č. Popović

TV Beograd 1, 15.08.1999 18h 25m - 19h

(And yet it moves)

(Before the departure to the site of the 11th August 1999 total Solar eclipse observation)

M. S. Dimitrijević, L. Č. Popović

TV Beograd 1, 15.08.1999 18h 25m - 19h

85. Iz sata u sat

(O astronomskim susretima u planetarijumu, rezultatima posmatranja pomračenja Sunca i Astronomskom društvu "Rudjer Bošković")

L. Č. Popović

Radio Beograd II, 20.08.1999, 9h30m - 10h30m

From hour to hour

(On astronomical meetings in the Planetarium, the results of total Solar eclipse observations and on Astronomical society "Rudjer Bošković")

L. Č. Popović

Radio Beograd II, 20.08.1999, 9h30m - 10h30m

86. Jutarnji program

(O ciklusu predavanja u planetarijumu)

M. S. Dimitrijević, L. Č. Popović

TV Beograd 1, 22.08.1999, repriza 23.08.

(Morning Program

On the lecture cycle in the Planetarium)

M. S. Dimitrijević, L. Č. Popović

TV Beograd 1, 22.08.1999, revival 23.08.

87. Od 1. septembra do kraja godine Miodrag Dačić je davao obdanice u Jutarnjem programu Radio Beograda

From the 1st of September up to the end of the year, M. Dačić supplied data on the length of day and night, for the Morning Programme of Radio Belgrade

88. Od 1. septembra do kraja godine Miodrag Dačić je davao obdanice u Jutarnjem programu Radio Novog Sada
 From the 1st of September up to the end of the year, M. Dačić supplied data on the length of day and night, for the Morning Programme of Radio Novi Sad
89. Repriza emisije serije Novo o starim planetama
 Venera
 TV Beograd 1, 3.09.1999, 11^h30^m
 M. S. Dimitrijević
 Replay of one emission of the series the New about the old planets
 Venus
 M. S. Dimitrijević
 TV Beograd 1, 3.09.1999, 11^h30^m
90. Vreme radoznalosti: Portreti savremenika: Milutin Milanković
 V. Protić-Benišek, voditelj Nina Arsenović
 TV Beograd I, 4.10.1999, 8^h-9^h
 The Time of Curiosity: Portraits of contemporaries: Milutin Milanković
 V. Protić-Benišek, emission host Nina Arsenović
 TV Beograd I, 4.10.1999, 8^h-9^h
91. Vreme radoznalosti: Portreti savremenika: Milorad Protić I
 V. Protić-Benišek, voditelj Nina Arsenović
 TV Beograd I, 11.10.1999, 8^h-9^h
 The Time of Curiosity: Portraits of contemporaries: Milorad Protić I
 V. Protić-Benišek, emission host Nina Arsenović
 TV Beograd I, 11.10.1999, 8^h-9^h
92. Beogradsko prepodno
 (O uticaju ratnih razaranja na ozonski omotač)
 M.S. Dimitrijević
 Radio Beograd 202, 12.10.1999, 11^h-11^h45^m
 Belgrade Foreafternoon
 (The effect of war ravages on the ozon layer)
 M.S. Dimitrijević
 Radio Beograd 202, 12.10.1999, 11^h-11^h45^m
93. Repriza serije "Sunce naša zvezda", autor scenarija i voditelj Milan S. Dimitrijević
 TV Beograd 1, Školski program: Priča o Suncu 14. 10. 1999; "Panorama pojava na Suncu 19. 10. 1999; Atmosfera Sunca 21. 10. 1999; Uticaj Sunca na Zemlju 26. 10. 1999.
 Replay of the series "The Sun our star", the author of the scenario and emission host Milan S. Dimitrijević.
 TV Belgrade 1, School programme: Story about the Sun 12. 10. 1999; Panorama of phenomena on the the Sun 19. 10. 1999; Atmosphere of the Sun 26. 10. 1999; Solar influence on the Earth 2. 11. 1999.

94. Vreme radoznalosti: Portreti savremenika: Milorad Protić II
 V. Protić-Benišek, voditelj Nina Arsenović
 TV Beograd I, 18.10.1999, 8^h-9^h
 The Time of Curiosity: Portraits of Contemporaries: Milorad Protić II
 V. Protić-Benišek, emission host Nina Arsenović
 TV Beograd I, 18.10.1999, 8^h-9^h
95. Planete Sunčevog sistema
 L. Č. Popović
 Radio Vršac, 22. 10. 1999
 Planets of the Solar system
 L. Č. Popović
 Radio Vršac, 22. 10. 1999
96. Planete Sunčevog sistema
 L. Č. Popović
 Radio Patak, Vršac, 22. 10. 1999
 Planets of the Solar system
 L. Č. Popović
 Radio Patak, Vršac, 22. 10. 1999
97. Sunce naša zvezda (Pomračenje Sunca)
 M. S. Dimitrijević, G. Popović, J. Arsenijević, M. Dačić, L. Č. Popović, D. Šulić,
 D. Olević, N. Stanić, I. Vince
 TV Beograd I, 28.10.1999 11h05m-11h35m
 The Sun our star (The Solar eclipse)
 M. S. Dimitrijević, G. Popović, J. Arsenijević, M. Dačić, L. Č. Popović, D. Šulić,
 D. Olević, N. Stanić, I. Vince
 TV Beograd I, 28.10.1999 11h05m-11h35m
98. Program za mlade: Nauka mladima
 (Jesenji ciklus predavanja na Narodnoj opservatoriji i druge aktivnosti Astronomi-
 skog društva "Rudjer Bošković")
 N. Stanić, voditelj Marija Mišić
 Radio Beograd I, 4.11.1999
 Programme for the young: 'The science to the young
 The autumn cycle of lectures at People's Observatory and other activities of the
 Astronomical Society "Rudjer Bošković"
 N. Stanić, emission host Marija Mišić
 Radio Beograd I, 4.11.1999
99. Otvaranje XII Nacionalne konferencije Jugoslovenskih astronoma i međunarog
 skupa o razvoju astronomskih baza podataka
 M. S. Dimitrijević, I. Vince, L. Č. Popović
 TV Beograd I, 19.11.1999 vesti i dnevnik.
 The opening of the XII National Conference of Yugoslav Astronomers and Inter-
 national Workshop on the development of Astronomical Databases

- M. S. Dimitrijević, I. Vince, L. Č. Popović
TV Beograd I, 19.11.1999 news and diary.
100. Otvaranje simpozijuma "Milanković juče, danas, sutra"
M. S. Dimitrijević
TV Beograd I, 25.11.1999 vesti i dnevnik.
The opening of the symposium Milanković Yesterday, Today, Tomorrow
M. S. Dimitrijević
TV Beograd I, 25.11.1999 news and diary.
101. Sunce naša zvezda (Pomračenje Sunca)
M. S. Dimitrijević, G. Popović, J. Arsenijević, M. Dačić, L. Č. Popović, D. Šulić,
D. Olević, N. Stanić, I. Vince
TV Beograd I, repriza, 30.11.1999 11h30m-12h; TV Beograd II, 30.11.1999 15h05m-
15h35m
The Sun - our star (The Solar eclipse)
M. S. Dimitrijević, G. Popović, J. Arsenijević, M. Dačić, L. Č. Popović, D. Šulić,
D. Olević, N. Stanić, I. Vince
TV Beograd I, Replay, 30.11.1999 11h30m-12h; TV Beograd II, 30.11.1999 15h05m-
15h35m
102. Iz dana u dan (O Milutinu Milankoviću)
M. S. Dimitrijević, V. Milićević, voditelj: Dragana Stefanović-Božić
Radio Beograd II, 3.12.1999, 10^h45^m-11^h30^m
From day to day (On Milutin Milanković)
M. S. Dimitrijević, V. Milićević, emission host: Dragana Stefanović-Božić
Radio Beograd II, 3.12.1999, 10^h45^m-11^h30^m
103. Informativni program
(Predstavljanje izdanja Zadužbine "Andrejević" u Narodnoj biblioteci)
M. S. Dimitrijević
TV Beograd I, 15.12.1999
Informative Programme
(Presentation of the Fondation "Andrejević" editions)
M. S. Dimitrijević
TV Beograd I, 15.12.1999
104. Program za mlade: Nauka mladima
(XI Zimska škola astrofizike: Galaksije na velikim crvenim pomacima)
N. Stanić, voditelj Marija Mišić
Radio Beograd I, 20.12.1999
Programme for the young: The science to the young
(XI Winter school of Astrophysics: Galaxies with high red shifts)
N. Stanić, emission host Marija Mišić
Radio Beograd I, 20.12.1999
105. Jutarnji program
(O pomračenju Sunca, početku zime, 2000 godina)

M. S. Dimitrijević, voditelj Danijela Karadžić

TV Beograd 1, 22.12.1999, 8h 40m

Morning program

(On the total Solar eclipse, the beginning of the winter, of the year 2000)

M. S. Dimitrijević, emission host Danijela Karadžić

TV Beograd 1, 22.12.1999, 8h 40m

106. Zanimljiva vasiona

L. Č. Popović

Radio Zaječar, 23.12.1999.

The interesting Universe

L. Č. Popović

Radio Zaječar, 23.12.1999.

107. Zanimljiva vasiona

L. Č. Popović

Timočka TV, 23.12.1999.

The interesting Universe

L. Č. Popović

Timočka TV, 23.12.1999.

108. Zanimljiva vasiona

L. Č. Popović

TV Kanal 27, 23.12.1999.

The interesting Universe

L. Č. Popović

TV Channel 27, 23.12.1999.

109. Jutarnji program

(O kalendaru i o početku trećeg milenijuma)

M. Dačić, voditelj Milan Knežević

Radio Beograd I, 25.12.1999

Morning Programme

(On the calendar and on the beginning of the third millennium)

M. Dačić, emission host Milan Knežević

Radio Beograd I, 25.12.1999

110. O kalendaru i o 2000. godini

M. Dačić, voditelj Vanja Bulić

TV SAT, Požarevac, 26.12.1999 15h - 17h

(On the calendar and on the year 2000)

M. Dačić, emission host Vanja Bulić

TV SAT, Požarevac, 26.12.1999 15h - 17h

111. Program za mlade: Korak ka nauci

(O kalendaru i o početku trećeg milenijuma)

M. S. Dimitrijević, voditelj Marija Mišić

Radio Beograd I, 27.12.1999 9h - 10h

Programme for the young: A step toward the science
(On the calendar and on the beginning of the third millennium)

M. S. Dimitrijević, emission host Marija Mišić

Radio Beograd I, 27.12.1999 9h - 10h

112. Jutarnji program

(O kalendaru i o početku trećeg milenijuma)

M. Dačić, voditelj Milan Knežević

Radio Beograd I, 28.12.1999

Morning Programme

(On the calendar and on the beginning of the third millennium)

M. Dačić, emission host Milan Knežević

Radio Beograd I, 28.12.1999

113. Jutarnji program

(O kalendaru i o početku trećeg milenijuma)

M. Dačić, voditelj Milan Knežević

Radio Beograd I, 30.12.1999

Morning Programme

(On the calendar and on the beginning of the third millennium)

M. Dačić, emission host Milan Knežević

Radio Beograd I, 30.12.1999

114. Program za mlade: Korak ka nauci

Kada dolazi treci milenijum

L. Ć. Popović

Poslovni radio, Beograd, 31.12.1999 9h 15m

Programme for the young: A step toward the science

(When the third millennium is arriving)

L. Ć. Popović

Poslovni radio (Business radio), Beograd, 31.12.1999 9h 15m

115. O kalendaru i o 2000. godini (Repriza)

M. Dačić, voditelj Vanja Bulić

TV SAT, Požarevac, 31.12.1999

(On the calendar and on the year 2000, Emission replay)

M. Dačić, emission host Vanja Bulić

TV SAT, Požarevac, 31.12.1999

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Br. 20, 1999

7.11 Mr Vesna Dimitrijević

ISTORIJSKO NA POŠTANSKIM MRARKAMA (1931-1952)

Br. 21, 1999

7.12 Mr Jasna Hručić

DELINKVENT ILI PACIJENT - STUDIJA PORODIČNOG NEUSPEHA

Br. 22, 1999

7.13 Mr Rade Paravina

INSTRUMENTALNI METODI ODREĐIVANJA BOJE U STOMATOLOGIJI
INSTRUMENTAL COLOR MATCHING IN DENTISTRY

Br. 23, 1999

7.14 Mr Dragana Stevović

AUTORITARNOST I POGLED NA SVET

Br. 25, 1999

7.15 Mr Tina Milanović

KVALITET VODA U AKUMULACIJAMA (MODELIRANJE, OCENJIVANJE, PRAĆENJE)

Br. 27, 1999

7.16 Mr Zoran Čvorović

ODGOVOR NA HEMIJSKI AKCIDENT

Br. 28, 1999

7.17 Mr Aleksandar Jankulović

MODELIRANJE I INTEGRACIJA PREDUZEĆA

Br. 29, 1999

7.18 Mr Snežana Mirković

UČENJE UČENJA

Br. 30, 1999

8. Biblioteka "POSEBNA IZDANJA" (Edition "POSEBNA IZDANJA") Zadužbina Andrejević (Andrejević foundation)

M. S. Dimitrijević - member of the scientific council of the foundation

8.1 Dr Dragan Bataveljić

NAČELO PODELE VLASTI OD ANTIČKOG POLISA DO MODERNIH DRŽAVA

Br. 1, 1999

8.2 Dr Stevo S. Cvjetičanin

RAZVOJ I PROIZVODNO-TRŽIŠNA STRUKTURA SRBIJE

Br. 2, 1999

8.3 Prim. dr med. Karlo Curnović

ULTRAZVUK U ORTOPEDIJI

Br. 3, 1999

8.4 Dr Anja Jokić

BIOELEMENTI U PERIODNOM SISTEMU

Br. 4, 1999

8.5 Dr Jozefina Beke Trivunac

PRUDENCIONA REGULACIJA I NADZOR NAD BANKAMA

Br. 5, 1999

8.6 Dr Zoran Keković

DRŽAVA, BEZBEDNOST I ŽIVOTNA SREDINA

Br. 6, 1999

8.7 Dr Violeta Stanimirović

OBOLJENJA DONJEG GENITALNOG TRAKTA IZAZVANOG HUMANIM PAPILOMA VIRUSIMA

Br. 7. 1999

9. Nauka i život (Science and life), NIP Planeta, Beograd

M. S. Dimitrijević - member of the Editorial council

10. Mladi fizičar "O", (Young Physicist "O")

Mladi fizičar "S", (Young Physicist "S")

M. S. Dimitrijević - member of the Editorial council

7.3 REVIEWING IN INTERNATIONAL JOURNALS

1 EARTH, MOON AND PLANETS

Zoran Knežević (1)

8. ORGANIZATION OF CONFERENCES

1. III Yugoslav Conference on Spectral Line Shapes. Brankovac (Fruška gora), 4-6.10.1999

Scientific Organizing Committee

Milan S. Dimitrijević
Ištvan Vince

2. XII National Conference of Yugoslav Astronomers and International Workshop on the Development of Astronomical Databases, Beograd, 19-21.11. 1999

Scientific Organizing Committee

Luka Č. Popović, Chairman
Milan S. Dimitrijević
Gojko Djurašević
Slobodan Jankov
Slobodan Ninković
Georgije Popović
Ištvan Vince

Local Organizing Committee

Miodrag Dačić, Chairman
Edi Bon
Vesna Mijatović
Nenad Milovanović
Nataša Popović
Nataša Stanić
Vesna Živkov

Scientific Organizing Committee of the Workshop

Luka Č. Popović
Milan S. Dimitrijević

Editors of the Conference proceedings

Luka Č. Popović
Miodrag Dačić

3. Simpozijum Milanković - juče, danas, sutra,
(Symposium Milanković - Yesterday, Today, Tomorrow) Beograd, 25-26.11. 1999

Scientific Committee

Milan S. Dimitrijević

Luka Č. Popović

Organizing Committee

Edi Bon

Luka Č. Popović

9. MEMBERSHIP IN INTERNATIONAL AND NATIONAL SCIENTIFIC SOCIETIES AND BODIES

9.1. MEMBERSHIP IN INTERNATIONAL SCIENTIFIC SOCIETIES

1. International Astronomical Union

J. Arsenijević
M.S. Dimitrijević (Commissions 14, 36)
G. Djurašević
Z. Knežević (Commissions 7 (Member of the organizing committee), 15, 20)
A. Kubičela (Commission 12)
S. Ninković (Commissions 28, 33, 38)
I. Pakvor (Commission 8)
G. Popović (Commission 26)
V. Protić - Benišek (Commission 20)
S. Sadžakov (Commission 8, 19)
I. Vince (Commission 12)

2. European Astronomical Society

J. Arsenijević
Z. Cvetković
M. Dačić
M.S. Dimitrijević
S. Ninković
L.Č. Popović
V. Protić - Benišek
S. Sadžakov
I. Vince

4. Euro-Asian Astronomical Society

M.S. Dimitrijević
G. Djurašević
S. Ninković
L. Č. Popović

5. Hungarian Astronomical Society

I. Vince

6. American Astronomical Society
M. M. Ćirković
7. American Physical Society
M. M. Ćirković
8. American Geophysical Union
D. Šulić
9. Committee of Space Research (COSPAR)
D. Šulić
10. International Working Group VLF/ELF Remote Sensing of the Ionosphere and Magnetosphere (VERSIM)
D. Šulić
11. International Association of Geomagnetism and Aeronomy (IAGA)
D. Šulić (National Correspondent)
12. International Union of Radio Science (URSI)
D. Šulić
13. Astronomische Gesellschaft
S. Ninković
S. Sadžakov
14. International Occultation Timing Association - European Section
V. Protić - Benišek
15. Astronomical Society of the Pacific
S. Ninković
16. Royal Astronomical Society of New Zealand
Lj. Skuljan
17. Spaceguard Foundation
Z. Knežević

9.2. MEMBERSHIP IN NATIONAL ASTRONOMICAL AND OTHER PROFESSIONAL SOCIETIES AND BODIES

1. Društvo astronoma Srbije (Society of astronomers of Serbia)
 - M. Ćirković, Secretary and member of the Presidential Board, up to 21.11.1999, since 21.11.1999 Secretary and member of the Directorial Board
 - I. Vince, member of the Presidential Board up to 21.11.1999, since 21.11.1999 member of the Directorial Board
 - L. Č. Popović, since 21.11.1999 member of the Directorial board

2. Nacionalni komitet za astronomiju (National Committee for Astronomy)
 - Z. Knežević, member up to 21.11.1999, President since 21.11.1999
 - I. Vince, President up to 21.11.1999, member since 21.11.1999
 - M. S. Dimitrijević, since 21.11.1999
 - G. Djurašević

3. Astronomsko društvo "Rudjer Bošković" (Astronomical society "Rudjer Bošković")
 - M. S. Dimitrijević, President
 - M. Dačić, member of the Presidential Board
 - Z. Knežević, member of the Presidential Board
 - L. Č. Popović, member of the Presidential Board
 - V. Protić - Benišek, member of the Presidential Board
 - I. Vince, member of the Presidential Board

4. Odbor za matematiku, mehaniku i astronomiju Ministarstva za nauku i tehnologiju Srbije (formiran za period 1996 - 2000) Board for Mathematics, Mechanics, and Astronomy of the Ministry of Science and Technology of Serbia (for 1996-2000)
 - I. Vince - member

5. Serbian Society for Science Fiction
 - M. Ćirković - Secretary

10. VISITING DIGNITARIES AND DISTINGUISHED GUESTS AT THE ASTRONOMICAL OBSERVATORY

20.01.1999.

Milić od Mačve, painter

22.01.1999.

Berislav Kosijer, writer

13-14.02.1999.

Dr Milcho Tsvetkov, Institute of Astronomy of the Bulgarian Academy of Sciences, Sofia, Bulgaria.

13-14.02.1999.

Dr Katja Tsvetkova, Institute of Astronomy of the Bulgarian Academy of Sciences, Sofia, Bulgaria.

12.05.1999

Dr Radivoje Mitrović, Deputy Minister for Science and Technology of the Republic of Serbia

12.10.1999

Dr Valentin M. Astashinskij, Institute of Molecular and Atomic Physics, Minsk, Belarus

18-22.11.1999

Dr Fridrih Kupka, Institute of Astronomy, Vienna, Austria

18-22.11.1999

Dr Tanya A. Ryabchik, Institute of Astronomy of Russian Academy of Sciences, Moscow, Russia

19-22.11.1999

Gordana Apostolovska, Institute of Physics, Faculty of Natural Sciences St. Cyril and Methodius, Skopje, Macedonia

19-23.11.1999

Dr Olga B. Dlužnevskaya, Institute of Astronomy of Russian Academy of Sciences, Moscow, Russia

19-23.11.1999

Dr Oleg Yu. Malkov, Institute of Astronomy of Russian Academy of Sciences,
Moscow, Russia

19-22.11.1999

Dr Mijat Mijatović, Institute of Physics, Faculty of Natural Sciences St. Cyril and
Methodius, Skopje, Macedonia

19-22.11.1999.

Dr Kosta Y. Stavrev, Institute of Astronomy of the Bulgarian Academy of Sciences,
Sofia, Bulgaria.

19-22.11.1999.

Dr Milcho Tsvetkov, Institute of Astronomy of the Bulgarian Academy of Sciences,
Sofia, Bulgaria.

11. THE ATTENDANCE AT SCIENTIFIC CONFERENCES

1. IAU Colloquium 175: "The Be Phenomenon in Early-Type Stars", Alicante, Spain, 28.06 - 2.07. 1999.
S. Jankov
2. IAU Colloquium 176: "The Impact of Large Scale Surveys on Pulsating Star Research", Budapest, Hungary, 8-12.08. 1999.
Lj. Skuljan
3. PhD Conference, Kecskemét, Hungary, 16-19.08. 1999.
Lj. Skuljan
4. IAU Symposium 197: "Astrochemistry: From Molecular Clouds to Planetary Systems", Sogwipo, Cheju Island, South Korea, 23-27.08. 1999.
S. Nikolić
5. 11th Cambridge Workshop on Cool Stars Stellar Systems and the Sun, Tenerife, Canarian Islands, Spain, 04-08 10. 1999.
D. Jevremović
6. III Yugoslav Conference on Spectral Line Shapes Brankovac (Fruška gora), 4-6.10. 1999
E. Bon
M. Đačić
M. S. Dimitrijević
S. Erkačić
N. Milovanović
L. Č. Popović
I. Vince
7. 31st Annual Meeting of the American Astronomical Society Division for Planetary Sciences, Padova, Italy, 10-15.10.1999
Z. Knežević (Co-chairman of the Section 24: Asteroids: Yarkovsky effect and Collisions.

8. 33 ESLAB Symposium "Star Formation from the Small to the Large Scale", Norw-
wijk, The Netherlands, 2-5.11.1999

S. Nikolić

9. (XI Winter School of Astrophysics: Galaxies on High Red Shifts")

E. Bon

N. Stanić

10. XII National Conference of Yugoslav Astronomers and International Workshop on
the Development of Astronomical Databases, Beograd, 19-21.11. 1999

J. Arsenijević

E. Bon

Z. Cvetković

M. M. Ćirković

M. Dačić

M. S. Dimitrijević

G. Djurašević

S. Erkapić

A. Kubičela

V. Mijatović

N. Milovanović

S. Nikolić

S. Ninković

D. Olević

I. Pakvor

L. Č. Popović

N. Popović

V. Protić-Benišek

N. Stanić

V. Trajkovska

I. Vince

V. Živkov

11. Simpozijum Milanković - juče, danas, sutra, Beograd, 25-26.11. 1999

Z. Cvetković

M. Dačić

M. S. Dimitrijević

N. Milovanović

L. Č. Popović

V. Trajkovska

12. VISITS TO SCIENTIFIC INSTITUTIONS

1. 1.01-10.02.1999
Armagh Observatory, Armagh, Northern Ireland
D. Jevremović
2. 1.01-6.08.1999
Department of Physics and Astronomy, University of Canterbury, Christchurch,
New Zealand.
Lj. Skuljan
3. 4.01-2.04.1999
Onsala Space Observatory, Sweden
S. Nikolić
4. 10.02-16.02.1999
Observatoire de Haute-Provence, Saint-Michel l'Observatoire, France
Observations of RS CVn stars with high resolution spectrograph on 1.9 m telescope
D. Jevremović
5. 17-23.02.1999
Astronomical Observatory, Vienna, Austria.
M.S. Dimitrijević
6. 15.03-1.08.1999
Armagh Observatory, Armagh, Northern Ireland
D. Jevremović
7. 25.03.1999
Nicholas Kopernik Observatory and Planetarium, Bruo.
M. S. Dimitrijević
8. 6.04-2.07.1999
Observatory, University of Helsinki, Helsinki, Finland
S. Nikolić

9. 1-4.05.1999
William Herschel telescope (4.2m), La Palma, Canarian Islands, Spain
High resolution spectroscopy of M dwarfs
D. Jevremović
10. 5.07-15.12.1999
Onsala Space Observatory, Sweden
S. Nikolić
11. 5.07-7.07.1999
Konkoly Observatory, Budapest, Hungary
L. Č. Popović
12. 7.07-15.08.1999
Universidad Nacional de la Plata, Facultad de Ciencias Astronomicas
y Geofisicas, La Plata, Argentina
G. Damljanović
13. 15-20.07.1999
Astronomical Observatory, Vienna, Austria.
M.S. Dimitrijević
14. 2-23.03 1999
Dipartimento di matematica, Università di Pisa, Italy
Z. Kuežević
15. 1.08-31.12 1999
University of Massachusetts, Amherst, USA
V. Živkov
16. 1.10-31.12 1999
Department of Physics and Astronomy, University of Canterbury, Christchurch,
New Zealand.
Lj. Skuljan
17. 1.09-20.12 1999
Armagh Observatory, Armagh, Northern Ireland
D. Jevremović

18. 4.10-3.11.1999
Dipartimento di matematica, Universita di Pisa, Pisa, Italy
Z. Kuczević
19. 15-29.10.1999
Section of Astrophysics, Astronomy and Mechanics, Department of Physics, University of Athens, Athens, Greece
G. Djurašević
20. 15.12-29.12 1999
Instituto de Astrofisica de Canarias, Spain
S. Jankov
21. 21.12-23.12 1999
Institute of Astronomy of the Bulgarian Academy of Sciences, Sofia, Bulgaria
L. Č. Popović
22. 29.12 1999 - 6.01.2000
L'Institut d'Astrophysique Spatiale, Orsay, France
S. Jankov

13. INTERNATIONAL SCIENTIFIC COLLABORATION

Argentina. Universidad Nacional de la Plata, Facultad de Ciencias Astronomicas y Geofisicas, La Plata (G.Damljanović)

Argentina, Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) (G.Damljanović)

Australia. Anglo - Australian Observatory, Epping (M. Ćirković)

Austria, Astronomical Observatory, Vienna (M. S. Dimitrijević, L. Č. Popović)

Belarus. Institute of Molecular and Atomic Physics, Minsk (Agreement on collaboration signed 15. 09. 1995)

Belarus, Scientific-Research Institute for Applied Physical Problems, of The Belarussian State University, Minsk (Agreement on collaboration signed 15. 09. 1995)

Belarus. Astronomical Observatory of The Belarussian State University, Minsk (Agreement on collaboration signed 27. 12. 1995)

Belgium. Observatoire Royale de Belgique, Uccles (V. Protić - Benišek)

Brasil, Instituto Astronomico e Geofisico - USP, Sao Paulo (S. Jankov, Z. Knežević)

Bulgaria, Institute of Astronomy of the Bulgarian Academy of Sciences, Sofia (V. Protić - Benišek, M. S. Dimitrijević, L. Č. Popović, E. Bon)

Finland. Observatory, University of Helsinki, Helsinki (S. Nikolić)

France, Observatoire de Paris, Meudon (M. S. Dimitrijević)

Germany. Max-Planck Institute, Garching (M. M. Ćirković)

Germany, University of Bonn, Bonn (S. Nikolić)

Greece. Section of Astrophysics, Astronomy and Mechanics, Department of Physics, University of Athens, Athens (G. Djurašević, M. S. Dimitrijević)

Hungary, Department of Astronomy, Eötvös Lorand University, Budapest (S. Nikolić, I. Vince)

Hungary, Konkoly Observatory, Budapest (I. Vince, S. Nikolić)

Hungary, Astronomical Observatory, Szombathely (I. Vince)

Hungary, Astronomical Observatory, Kiskunhalas (I. Vince)

Hungary, Astronomical Observatory, Baja (I. Vince)

- Hungary, Astronomical Observatory, Szegedin (I. Vince)
- Italy, Dipartimento di matematica, Universita di Pisa, Pisa (The Common Project "Asteroids as a Key of Understanding the Origin of the Solar System", Bilateral Protocol between Yugoslav and Italian Governments, Z. Knežević in charge on Yugoslav and A. Milani on Italian Part)
- Italy, Osservatorio astronomico di Brera, Milano (Z.Knežević)
- Italy, Osservatorio astronomico di Torino (Z.Knežević)
- Italy, SISSA, Trieste (M. Ćirković)
- Japan, ILOC - International Lunar Occultations Center, Tokio (V. Protić - Benišek)
- New Zealand, Department of Physics and Astronomy, University of Canterbury, Christchurch (Lj. Skuljan)
- New Zealand, Mt. John Observatory (Lj. Skuljan)
- New Zealand, Carter Observatory, Wellington (G. Djurašević)
- Northern Ireland, Armagh Observatory, Armagh (D. Jevremović)
- Northern Ireland, Queen's University, Belfast (D. Jevremović)
- Romania, Astronomical Observatory, Bucharest (Agreement on collaboration with Astronomical Institute of the Romanian Academy of Sciences , signed 12. 05. 1995)
- Romania, Astronomical Observatory, Cluj - Napoca (Agreement on collaboration with Astronomical Institute of the Romanian Academy of Sciences, signed 12. 05. 1995)
- Romania, Astronomical Observatory, Timisoara (Agreement on collaboration with Astronomical Institute of the Romanian Academy of Sciences , signed 12.05.1995)
- Russia, GAIŠ - Main Astronomical Institute "Šternberg", Moskva (S. Ninković, G. Djurašević)
- Russia, Astronomical Institute of the Russian Academy of Sciences (L. Č. Popović, M. S. Dimitrijević)
- Russia, St. Petersburg State University, St. Petersburg (S.Ninković, M. Ćirković)
- Russia, Institute of Theoretical Astronomy (ITA), St. Petersburg (V. Protić - Benišek, G. Popović)
- Russia, Petrozavodsk State University, Petrozavodsk (S.Ninković)
- Russia, Pulkovo Astronomical Observatory, Pulkovo, St.Petersburg (I. Pakvor, V.Protić - Benišek, G. Popović)
- Russia, Pulkovo Astronomical Observatory - Kislovodsk Solar Station, Pulkovo - Kislovodsk, St.Petersburg (Agreement on colaboration signed at beginning of 1996)

Russia. Institute of Applied Physics of the Russian Academy of Sciences, Nizhnij Novgorod (Agreement on collaboration signed at the beginning of 1996)

Russia. Tatarstan. Department of Optics and Spectroscopy, Kazan State University, Kazan (Agreement on collaboration, signed on 18.08.1995)

Russia. Tatarstan. Department of Astronomy, Kazan State University, Kazan (Agreement on collaboration, signed on 18.08.1995)

Russia, Tatarstan. Engelkhart Astronomical Observatory, Kazan. (Agreement on collaboration, signed on 18.08.1995)

Slovakia, Astronomical Institute of the Slovak Academy of Sciences, Tatranska Lomnica (G. Djurašević)

Spain, Catalanian Polytechnical University, Barcelona (S. Ninković)

Spain, Astrophysical Institute of Andalusia, Granada (S. Ninković)

Spain, Instituto de Astrofísica de Canarias, Tenerife (L. Č. Popović)

Sweden, Onsala Space Observatory (S. Nikolić)

Turkey, Ankara University Observatory (G. Djurašević)

Ukraine. Astronomical Observatory of Odessa State University "I.I. Mechnikov". Odessa (Agreement on collaboration, signed 27.11.1995)

Ukraine. Crimean Astrophysical Observatory, Nauchny, Crimea (Agreement on collaboration, signed 24.11.1995)

Ukraine, Mykolajiv Observatory, Mykolajiv (I. Pakvor, G. Damljanović)

USA. Department of Physics and Astronomy, University of Georgia, Athens. Georgia (D. Jevremović)

USA. State University of New York, Stony Brook, New York (M. Ćirković)

USA. University of Massachusetts, Amherst (V. Živkov)

Uzbekistan, Majdanak Observatory, Majdanak (G. Djurašević)

14. TEACHING ACTIVITY

14.1. LECTURING AT THE UNIVERSITY LEVEL

1. M. Dačić
GEODESIC ASTRONOMY
Military Technical Academy
(lectures) V year, since 1.11.1999
2. G. Daniljanović
HARMONIC ANALYSIS OF TIME SERIES
Universidad Nacional de la Plata, Facultad de Ciencias Astronomicas y Geofisicas,
La Plata, Argentina
Visiting Professor (7.07 - 15.08.1999)
3. M.S. Dimitrijević
ASTRONOMICAL SPECTROSCOPY
Department of Astronomy, Mathematical Faculty
Postgraduate studies II year
4. Z. Knežević
METHODS OF CELESTIAL MECHANICS
Department of Astronomy, Mathematical Faculty
Postgraduate studies II year
5. S. Ninković
STELLAR SYSTEMS II
Department of Astronomy, Mathematical Faculty
Postgraduate studies I year
6. S. Ninković
SPECIAL COURSE ON ORBITS OF STARS IN STELLAR SYSTEMS
Department of Astronomy, Mathematical Faculty
Postgraduate studies II year
7. S. Ninković
GALACTIC ASTRONOMY
Department of Astronomy, Mathematical Faculty
Postgraduate studies II year
8. L. Č. Popović
SELECTED CHAPTERS OF EXTRAGALACTIC ASTRONOMY
Postgraduate studies II year

9. D. Šulić
PHYSICS II
Department of Geophysics, Faculty for Mining and Geology
Group for Geophysics, II year
10. I. Vince
PRACTICAL ASTROPHYSICS
Department of Astronomy, Mathematical Faculty
(lectures and exercises) III year.
11. I. Vince
METHODS AND TECHNIQUE OF OBSERVATIONS OF THE SUN
Department of Astronomy, Mathematical Faculty
Postgraduate studies II year
12. I. Vince
PRACTICAL ASTRONOMICAL SPECTROSCOPY
Department of Astronomy, Eötvös Lorand University, Budapest, Hungary
Doctoral Studies
13. I. Vince
PRACTICAL ASTROPHYSICAL SPECTROSCOPY
Department of Astronomy, Mathematical Faculty
Doctoral studies.

14.2. Ph. D. AND M. Sc. THESES

1. Branimir Blagojević
ŠIRENJE I POMERAJ ANALOGNIH SPEKTRALNIH LINIJA JONA U PLAZMI DUŽ IZOELEKTRONSKIH NIZOVA
BROADENING AND SHIFT OF ANALOGOUS IONIC SPECTRAL LINES IN PLASMA ALONG ISOELECTRONIC SEQUENCES
Ph. D. Thesis, Belgrade University, Faculty of Physics, 6.07.1999
(M. S. Dimitrijević, Member of the Board)
2. Predrag Jovanović
UTICAJ SUNČEVE AKTIVNOSTI NA ZEMLJINU ROTACIJU
THE INFLUENCE OF SOLAR ACTIVITY ON THE EARTH'S ROTATION
M. Sc. Thesis, Belgrade University, Faculty of Mathematics, 25.11.1999
(I. Vince, Member of the Board)

**15. SUPPLEMENT TO THE 1995 LIST OF
INSTITUTIONS RECEIVING SERBIAN ASTRONOMICAL
JOURNAL AND PUBLICATIONS OF THE
ASTRONOMICAL OBSERVATORY OF BELGRADE**

MACEDONIA

Library of the Macedonian Academy of Sciences and Arts, Skopje, Makedonija

Narodna i univerzitetska biblioteka "Goce Delčev", Skopje, Makedonija

ROMANIA

Romanian Academy, Editorial Committee of "Studii si Cercetări de Geofizică" and
"Revue Roumaine de Géophysique", Bucharest, Romania

RUSSIA

Russian State Library (RGB), Moskva, Russia

SLOVENIA

Univerzitetna knjižnica, Maribor, Slovenia

YUGOSLAVIA

Grupa za astronomiju Društva istraživača "Vladimir Mandić - Manda", Valjevo, Yu-
goslavia

16. BELGRADE ASTRONOMICAL OBSERVATORY STAFF AND ORGANISATION

WINNERS OF THE ASTRONOMICAL OBSERVATORY PRIZE FOR 1999

1. Prize for Science
ANATOLIJ MIHAJLOV
1. Prize for Science for Young
MILAN ĆIRKOVIĆ
3. Prize for the Contribution to the Development of the Astronomical Observatory (for fellows of Astronomical Observatory)
LUKA Č. POPOVIĆ
4. Prize for the Contribution to the Development of the Astronomical Observatory
ISTRAŽIVAČKA STANICA (RESEARCH STATION) "PETNICA"

DIRECTOR

Milan S. Dimitrijević

DIRECTORIAL BOARD

Dragan Popović - President
Luka Popović - Vice President
Zoran Bojanić
Miroljub Ignjatović
Slobodan Jankov
Nebojša Petrović
Georgije Popović
Ištvan Vince

JOINT SCIENTIFIC COUNCIL OF ASTRONOMICAL OBSERVATORY, GEO- MAGNETIC INSTITUTE AND SEISMOLOGICAL INSTITUTE

Milan S. Dimitrijević - President
Slobodan Ninković - Vice President
Olga Atanacković - Vukmanović
Ljiljana Cander
Stevan Djeniže
Aleksandar Djordjević
Gojko Djurašević

Davorika Grubor
Slobodan Jankov
Zoran Knežević
Aleksandar Kubičela
Anatolij A. Mihajlov
Georgije Popović
Sofija Sadžakov
Božidar Stanić
Desanka Sulić
Ištvan Vince

SCIENTIFIC COUNCIL OF ASTRONOMICAL OBSERVATORY

Ištvan Vince - President
Gojko Djurašević - Vice President
Milan S. Dimitrijević
Slobodan Jankov
Zoran Knežević
Slobodan Ninković
Georgije Popović
Luka Č. Popović
Desanka Šulić, up to 1. 11. 1999

STAFF AND ORGANISATION OF ASTRONOMICAL OBSERVATORY IN 1999

Dr Milan S. Dimitrijević (Director)

SCIENTIFIC DIVISION

DEPARTMENT FOR ASTROPHYSICS

Dr Ištvan Vince (Head of Department)
Dr Milan S. Dimitrijević
Dr Gojko Djurašević
Dr Slobodan Jankov
Dr Darko Jevremović, Ph. D. since 25.11.1999
Dr Luka Č. Popović
Dr Desanka Šulić, up to 1.11.1999
M.Sc. Milan Čirković
M.Sc. Sanja Erkačić
M.Sc. Silvana Nikolić
M.Sc. Ljiljana Skuljan
M.Sc. Dragana Tankosić
Edi Bon
Snežana Marković-Kršljanin
Nenad Milovanović, since 20.01.1999

Nataša Stanić

Oliver Vince, since 1.12.1999

DEPARTMENT FOR DYNAMICAL ASTRONOMY

Dr Georgije Popović (Head of Department)

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ID=88003596



Fig. 1 Dr Anatolij A. Mihajlov, the winner of the prize for science for 1999. (Author of all photos except photos No. 25-27 is Miodrag Dačić). (19. November 1999.)



Fig. 2 Dr Luka Č. Popović receiving the prize for the contribution to the development of Astronomical Observatory for 1999. (19. November 1999.)

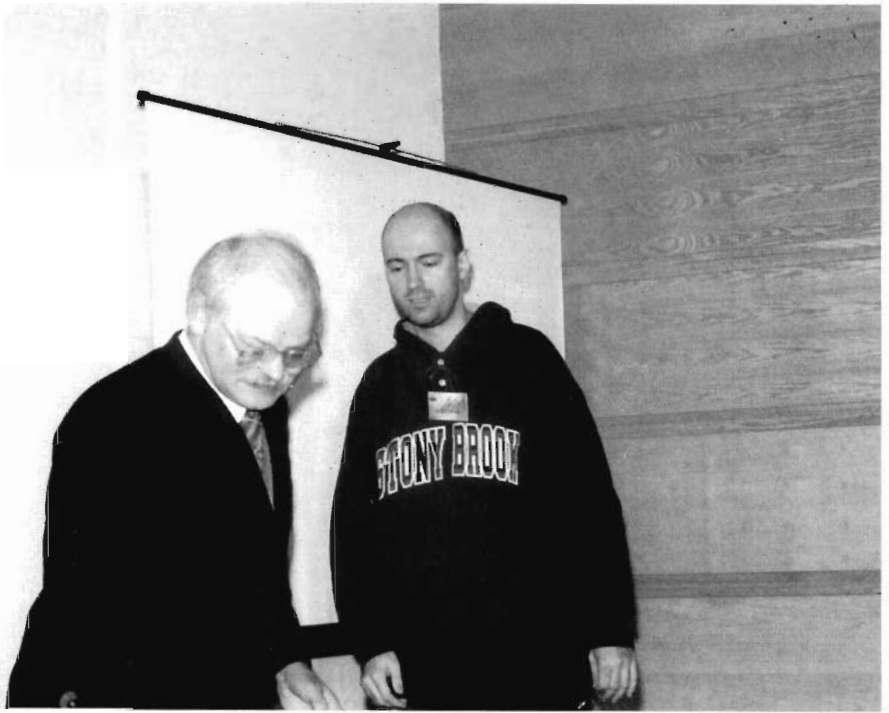


Fig. 3 M.Sc. Milan Ćirković receiving the prize for science for young of Astronomical Observatory for 1999. (19. November 1999.)



Fig. 4 Milan Bogosavljević receiving the prize for the contribution to the development of Astronomical Observatory for Research station "Petinca". (19. November 1999.)



Fig. 5 Dr Dragan Popović handing to Dr Ištvan Vince the writ of recognition for his over 10 years collaboration at Observatory. (19. November 1999.)



Fig. 6 Dr Dragan Popović handing to Gordana Dakić the writ of recognition for her over 10 years collaboration at Observatory. (19. November 1999.)



Fig. 7 Dr Dragan Popović handing to Dr Milan S. Dimitrijević the writ of recognition for his over 10 years collaboration at Observatory. (19. November 1999.)



Fig. 8 Dr Dragan Popović handing to Dr Gojko Djurašević the writ of recognition for his over 10 years collaboration at Observatory. (19. November 1999.)



Fig. 9 Dr Dragan Popović handing to Dr Slobodan Jankov the writ of recognition for his over 10 years collaboration at Observatory. (19. November 1999.)



Fig. 10 Dr Dragan Popović handing to Slavica Pavić the writ of recognition for her over 10 years collaboration at Observatory. (19. November 1999.)



Fig. 11 Dr Dragan Popović handing to M.Sc. Ivan Pakvir the writ of recognition for his over 10 years collaboration at Observatory. (19. November 1999.)



Fig. 12 Dr Dragan Popović handing to M.Sc. Vojislava Protić-Benišek the writ of recognition for her over 10 years collaboration at Observatory. (19. November 1999.)



Fig. 13 Dr Dragan Popović handing to Veselka Trajkovska the writ of recognition for her over 10 years collaboration at Observatory. (19. November 1999.)



Fig. 14 Dr Dragan Popović handing to M.Sc. Zorica Cvetković the writ of recognition for her over 10 years collaboration at Observatory. (19. November 1999.)



Fig. 15 Milan S. Dimitrijević opens the 8th March 1999 celebration.

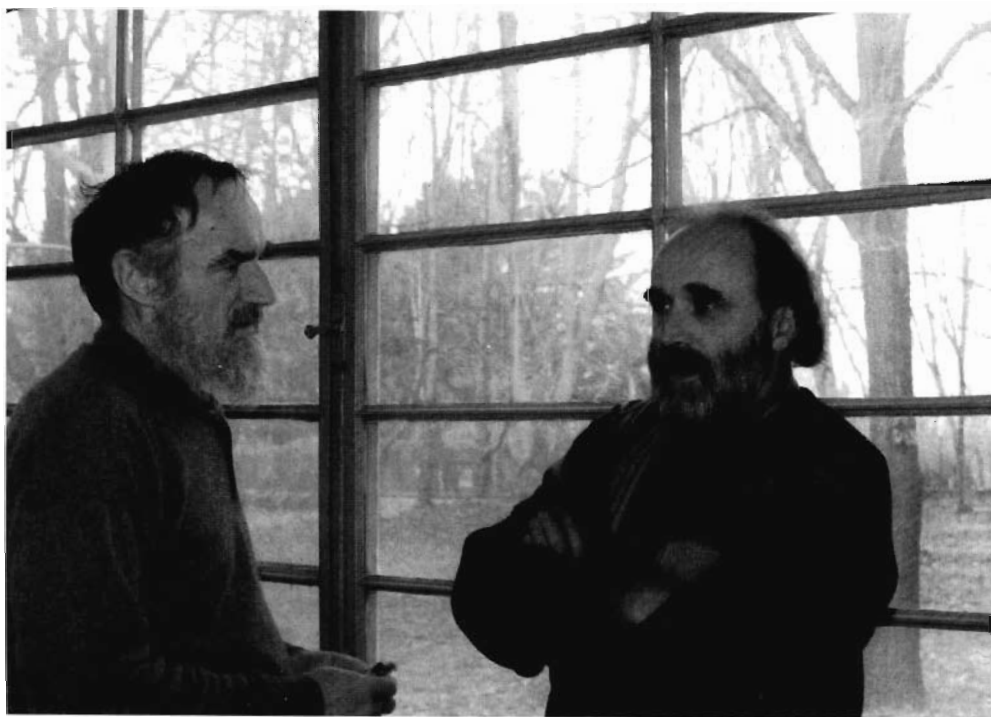


Fig. 16 The celebration of the 8th March 1999. Djuro Božičković and Milan Radovanac.



Fig. 17 The celebration of the 8th March 1999. Dragan Blagojević, Sreten Stepanović, Zorica Cvetković, Milan S. Dimitrijević and Jela Pešić.



Fig. 18 The celebration of the 8th March 1999. Nataša Popović, Slobodan Ninković and Vesna Živkov.



Fig. 19 The celebration of the 8th March 1999. Vojislava Protić-Benišek and Desanka Šulić.



Fig. 20 The celebration of the 8th March 1999. Slobodan Jankov and Zorica Cvetković.



Fig. 21 During an air attack of NATO agressors, in the woods (May 1999.). Mileva Blagojevic, Ivica Trogrlić, Jela Pešić, Milan Radovanac, Dragan Blagojević, Milan S. Dimitrijević.



Fig. 22 Zorica Cvetković by the wreckage of the Meridian Circle burnt on 10th May 1999 during an air attack on NATO agressors.



Fig. 23 The wreckage of Meridian Circle, burnt up on 10th May 1999 at 13^h30^m during an air attack of NATO agresors.



Fig. 24 Damages on the entrance of the Observatory main building after the bombardment of Zvezdara suburb by NATO agresors on 31st May 1999 between 3^h45^m and 4^h05^m in the morning.



Fig. 25 The City of Belgrade Library. Promotion of the "Vasiona" journal No 2-3 on 27. July 1999. Luka Č. Popović, Aleksandar Kubičela, Ištvan Vince, Jovan Lazović, Milan S. Dimitrijević, Jelena Milogradov-Turin, Stevo Šegan. (Photo by Zoran Pavlović).



Fig. 26 Preparation of the 11th August 1999 total Solar eclipse observation. Campus near "Jezero" near Kikinda.



Fig. 27 Preparation for the 11th August 1999 total Solar eclipse observation. Campus near "Jezero" near Kikinda. Georgije Popović and Dragomir Olević.



Fig. 28 Astronomers at III Yugoslav Conference on Spectral Line Shapes, Brankovac-Fruška Gora, 3-6 October 1999. Ištvan Vince, Milan S. Dimitrijević, Sanja Erkapić, Miodrag Dačić, Nenad Milovanović, Luka Č. Popović. (6th October 1999)



Fig. 29 Participants of the III Yugoslav Conference on Spectral Line Shapes, Brankovac-Fruška Gora, 3-6 October 1999 in excursion in front of Jazak Monastery, 5th October 1999.

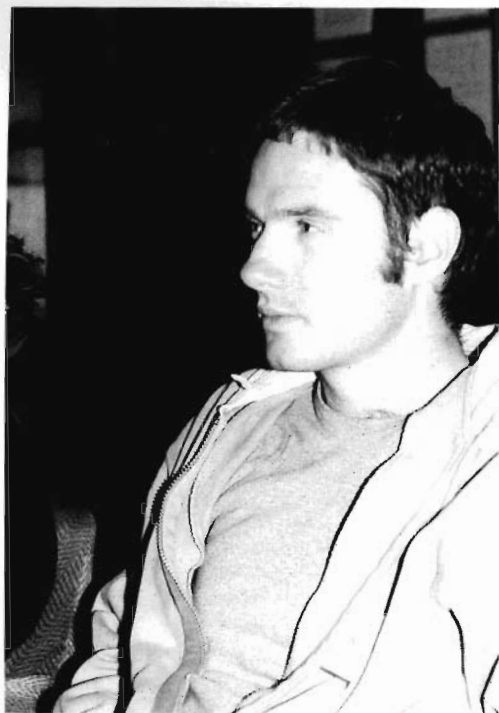


Fig. 30 III YCSLS, Brankovac-Fruška Gora, 3-6 October 1999. Edi Bon.



Fig. 31 III YCSLS, Brankovac-Fruška Gora, 3-6 October 1999. Miodrag Dačić.



Fig. 32 III YCSLS, Brankovac-Fruška Gora, 3-6 October 1999. Luka Č. Popović.



Fig. 33 III YCSLS, Brankovac-Fruška Gora, 3-6 October 1999. Sanja Erkapić.



Fig. 34 III YCSLS, Brankovac-Fruška Gora, 3-6 October 1999. Milan S. Dimitrijević.



Fig. 35 III YCSLS, Brankovac-Fruška Gora, 3-6 October 1999. Ištvan Vince.



Fig. 36 III YCSLS, Brankovac-Fruška Gora, 3-6 October 1999. Stevica Djurović, Rector Jagoš Purić, Nikola Konjević, Milan V. Popović, Milan S. Dimitrijević.



Fig. 37 III YCSLS. Brankovac-Fruška Gora, 3-6 October 1999. Milan S. Dimitrijević, Luka Č. Popović, Božidar Vujičić.



Fig. 38 III YCSLS. Brankovac-Fruška Gora, 3-6 October 1999. Nenad Milovanović, Milan S. Dimitrijević, Nataša Djurović.

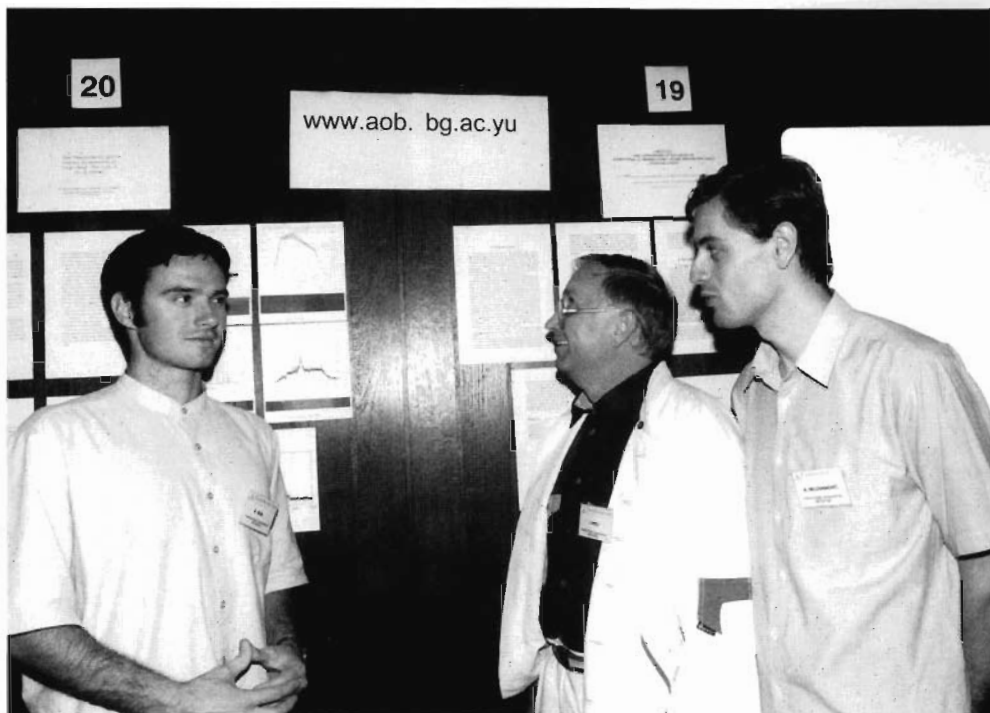


Fig. 39 III YCSLS, Brankovac-Fruška Gora, 3-6 October 1999. Edi Bon, Ištvan Vince, Nenad Milovanović.



Fig. 40 III YCSLS, Brankovac-Fruška Gora, 3-6 October 1999. Standing Zoran Mijatović. Front row: Milan S. Dimitrijević, Milan V. Popović, Nikola Konjević.



Fig. 41 III YCSLS. Brankovac-Fruška Gora, 3-6 October 1999. Sanja Erkapić and Nenad Milovanović.



Fig. 42 In the house of great Serbian painter Milić of Mačva, 14th October 1999. Milan S. Dimitrijević, Milić of Mačva, Luka Č. Popović.



Fig. 43 Dušan Šaletić Commemoration. 21st October 1999. Natalija Bratuljević, Branislav Ševralić, Milan S. Dimitrijević, Blaško Filipović, Milorad Lončarević.



Fig. 43 Dušan Šaletić Commemoration. 21st October 1999. Natalija Bratuljević, Branislav Ševralić, Milan S. Dimitrijević, Blaško Filipović, Sofija Sadžakov.



Fig. 45 21.10.1999. Promotin of Astronomical Observatory editions at the Belgrade Book Fair. Nataša Stanić, Milan S. Dimitrijević, Luka Č. Popović.



Fig. 46 The Opening Ceremony of the XII National Conference of Yugoslav Astronomers and International Workshop on the Development of Astronomical Databases, Belgrade 19th November 1999. Ištvan Vince, Jelena Milogradov-Turin, Luka Č. Popović, Dragan Popović, Milan S. Dimitrijević.



Fig. 47 Belgrade University Rector Jagoš Purić opens the XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases. Belgrade, 19th November 1999, Chamber of Commerce of Yugoslavia.



Fig. 48 International Workshop on the Development of Astronomical Databases. Belgrade 20th November 1999. Olga Borisova Dluzhnevskaya, Moscow, Russia.



Fig. 49 International Workshop on the Development of Astronomical Databases. Belgrade 20th November 1999. Milcho Tsvetkov, Sofia, Bulgaria.



Fig. 50 International Workshop on the Development of Astronomical Databases. Belgrade 20th November 1999. Tanya Ryabchikova, Moscow, Russia.



Fig. 51 XII Nat. Conf. Yug. Astr. Belgrade 19-21. November 1999. Nikola Konjević.



Fig. 52 XII Nat. Conf. Yug. Astr. Belgrade 19-21. November 1999. Luka Č. Popović.



Fig. 53 International Workshop on the Development of Astronomical Databases, Belgrade 20th November 1999. Fridrich Kupka, Vienna, Austria.



Fig. 54 International Workshop on the Development of Astronomical Databases. Belgrade 20th November 1999. Oleg Yu. Malkov, Moscow, Russia.



Fig. 55 International Workshop on the Development of Astronomical Databases. Belgrade 20th November 1999. Gordana Apostolovska. Skopje. Republic of Macedonia.



Fig. 56 International Workshop on the Development of Astronomical Databases. Belgrade 20th November 1999. Nikola Stavrev. Sofia. Bulgaria.



Fig. 57 XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases.. Belgrade, 19-21 November 1999. Micho Tsvetkov (Sofia, Bulgaria), Olga B. Dlužnevskaya (Moscow, Russia), Oleg Yu. Malkov (Moscow, Russia), Luka Č. Popović.



Fig. 58 XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases.. Belgrade, 19-21 November 1999. Nikola Stavrev (Sofia, Bulgaria), Milan S. Dimitrijević, Anatolij A. Mihajlov.



Fig. 59 XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases.. Belgrade, 19-21 November 1999. Slobodan Jankov and Ištvan Vince.



Fig. 60 XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases.. Belgrade. 19-21 November 1999. Nataša Popović, Tanja Milovanov, Nenad Milovanović, Vesna Mijatović.



Fig. 61 XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases.. Belgrade. 19-21 November 1999. Marta and Ištvan Vince.



Fig. 62 XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases., Belgrade, 19-21 November 1999. Zorica Cvetković, Gligorije Perović, Olga Atanacković-Vukmanović.



Fig. 63 XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases., Belgrade, 19-21 November 1999. Closing Ceremony. Olga B. Dluzhnevskaya (Moscow, Russia) handing to Milan S. Dimitrijević the medal for Collaboration.



Fig. 64 XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases., Belgrade, 19-21 November 1999. Closing Ceremony. Luka Ć. Popović and Milan S. Dimitrijević after receiving medals for collaboration from Olga B. Dlužnevskaya.



Fig. 65 XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases., Belgrade, 19-21 November 1999. Milan S. Dimitrijević and Anatolj A. Mihajlov.



Fig. 66 XII Nat. Conf. Yug. Astron. and Int. Workshop on the Devel. of Astron. Databases., Belgrade, 19-21 November 1999. Opening Ceremony. First row: Nenad Milovanović, Milcho Tsvetkov (Sofia, Bulgaria), H.E. Ivajlo Trifunov (ambassador of Bulgaria), Rector Jagoš Purić, Dragan Popović, Tanya Ryabchikova (Moscow, Russia), Fridrich Kupka (Vienna, Austria).



Fig. 67 13. December 1999. The gala dinner at "Dva bela goluba" ("Two White Pigeons"), Milan S. Dimitrijević, Georgios Ioanidis (Athens, Greece), Georgios Contopoulos (vice president of the Academy of Athens, Athens, Greece), Dejan Medaković (president of the Serbian Academy of Sciences and Arts), H.E. Panaiotis Vlassopoulos (ambassador of Greece).