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ELECTRONIC EDITIONS OF ASTRONOMICAL INSTITUTIONS FROM BELGRADE

Abstract. Electronic publishing of astronomical institutions from Serbia is described and analyzed.
Keywords: Astronomy, electronic publishing.

With electronic publishing we started on Astronomical Observatory in 2006. The motives were two–folds. From one side, I wished that articles from books edited by myself, and proceedings of conferences organized by myself, are accessible through large international databases as it is NASA ADS (Atomic Data System). From the other side electronic publishing enables to save and to include in libraries, virtual libraries and database as Serbian Virtual Observatory and data which not enter to printed books as, a large number of photos in format, size and resolution convenient for quality printing and inclusion in other books and publications, videos and presentations of lecturers.

We started this work in 2006, without any previous experience, and Nenad Milovano–vić and myself we produced a CD containing Proceedings of IV Serbian Conference on Spectral Line Shapes, Arandelovac, Serbia, 10–15 October 2003, which was published in paper version in Publ. Astron. Obs. Belgrade, No. 76. Additionally, on CD also were photos from the conference, made by Miodrag Dačić. We selected best photos of participants and in the directory with this name all photos are with names of persons on it so that future researchers will have such data available. We made an official electronic edition with ISBN number and CIP of National Library.

After this first one, we started to publish in such form other conference proceedings in addition to the paper edition, including different material like presentations of lecturers, videos, conference posters and so on. Also, if photos and pictures in paper version of Proceedings were published black and white or with low quality, on CD or DVD, in articles are high quality color photographs. From 2007, the author has worked on preparation of electronic publications with Tatjana Milovanov who has considerably improved visually disc covers and arrangements.

Electronic editions are distributed to libraries: ten copies to the National library, The Library of “Matica srpska”, The Library of Mathematical Faculty, The Library of Paris Observatory, NASA ADS, National Center for digitization and to other institutions.

All electronic editions concerning Serbian–Bulgarian and Bulgarian–Serbian astronomical conferences, were completely set on internet by Milcho Tsvetkov and can be seen on-line:

The First Bulgarian–Yugoslav Astronomical Meeting, Belogradchik, Bulgaria, 5–8 August 1998, http://aquila.skyarchive.org/1_BSAC/

II Serbian–Bulgarian Astronomical Meeting, Zaječar, Serbia, 23–26 June 2000
http://aquila.skyarchive.org/2_SBAC/

IV Serbian–Bulgarian Astronomical Conference, Belgrade, Serbia, 21–24 April 2004
http://aquila.skyarchive.org/4_SBAC/

The 5th Bulgarian–Serbian Conference on Astronomy and Space Science, May 9–12, 2006, Sofia, Bulgaria, http://aquila.skyarchive.org/5_BSAC/

VI Serbian–Bulgarian Astronomical Conference, May 7–11, 2008, Belgrade, Serbia
http://aquila.skyarchive.org/6_SBAC/

Articles from most of CD's to which refer this paper can be found also in the „CD library“ part of the Virtual Library of the Faculty of Mathematics, <http://elibrary.matf.bg.ac.rs/handle/123456789/612>

A more long-term objective is to digitize the proceedings of all conferences organized by us, to publish their official electronic editions and to set them in Serbian Virtual Observatory. Up to now, 22 CDs and DVDs have been published (the complete list with all relevant data is below) and publishers have been Astronomical Observatory, Astronomical Society „Ruđer Bošković“, Society of Astronomers of Serbia and Naturalist society „GEA“ from Vršac.

As can be seen from the list of published CDs and DVDs, the material from several series of conferences is included. Namely when I obtained the position of Director of Astronomical Observatory (end of 1994), my wish was to establish and enlarge the scientific collaboration with neighbouring countries, which practically had not existed or was very weak at that time. This was useful since with relatively low costs the young from Observatory could interact with colleagues from abroad. So we started with Hungarians (1995), Romanians, Byelorussians and Bulgarians. Conferences with Byelorussians (VIII conference was in 2010 in Lepenski Vir) and Bulgarians (VII was in 2010 in Chepelare Bulgaria) continue to be organized. They have contributed to common works and projects and particularly those with Bulgarians, contributed to mutual understanding, since, like with Macedonians in former Yugoslavia majority now, after seven common conferences, could speak our languages and understand each other.

Also in 1995 I started with the series of conferences „Yugoslav Conference on Spectral Line Shapes“, now „Serbian Conference on Spectral Line Shapes in Astrophysics“ (VII was in 2009 in Zrenjanin). At the first one, held in Krivaja in 1995, there were two participants from Byelorussia and one from England. At the Seventh one there were forty foreign participants and the proceedings has been published as a special issue of the international journal „New Astronomy Review“. These conferences enable to the young from Observatory to listen lessons and collaborate with known foreign scientists in these research fields.

Important is also the series of the conferences „Development of Astronomy among Serbs“. I organized the First one in 1997, as part of the celebration of 110th anniversary of Astronomical Observatory. This series of conferences has connected a large number of people working in different disciplines of science, literature and arts and having common inspiration with astronomical motives.

The presented CDs and DVDs have enabled to enlarge the influence of the results of these activities and to make them accessible worldwide.



List of published CDs and DVDs

1. **IV Serbian conference on spectral line shapes**, Arandelovac, Serbia, 10–15 October 2003 [Electronic Source]: Official CD presentation of the Publ. Astron. Obs. Belgrade, No. 76, edited by Milan S. Dimitrijević, Luka Č. Popović and Nenad Milovanović, Belgrade, Astronomical Observatory, 2006, (Beograd: N. Milovanović, M. S. Dimitrijević). – 1 electronic optical disk (CD-ROM).
2. **Program, abstracts and photos** [Electronic Source], 5th Serbian Conference on Spectral Line Shapes, Vršac, Serbia 6–10. June 2005; edited by Milan S. Dimitrijević, Nenad Milovanović and Luka Č. Popović, Organized by Astronomical Observatory Belgrade and Prirodnjačko društvo “GEA”, Vršac. – [CD ver.]. – Vršac: Prirodnjačko društvo “GEA”; Belgrade: Astronomical Observatory, 2006 (Beograd: M. S. Dimitrijević: N. Milovanović). – 1 electronic optical disk (CD-ROM).
3. **Invited lectures, contributed papers and photos**, VI Serbian–Belarussian Symposium on Physics and Diagnostics of Laboratory and Astrophysical Plasma, Belgrade, 22–25 August 2006; [organized by Faculty of Physics, University of Belgrade, Center for Science and Technology Development, and Astronomical Observatory], edited by Milivoje Ćuk, Milan S. Dimitrijević, Jagoš Đurić and Nenad Milovanović – Belgrade: Astronomical Observatory, 2007 [Nenad Milovanović, Milan S. Dimitrijević, 2007]. – 1 electronic optical disk (CD-ROM).
4. **Papers and photos** [Electronic Source], Official CD presentation of the Publ. Astron. Obs Belgrade, No. 64, The First Bulgarian–Yugoslav Astronomical Meeting, August 5–8, 1998, Belogradchik, Bulgaria, edited by Milan S. Dimitrijević, Luka Č. Popović and Milcho Tsvetkov. – Belgrade, Astronomical Observatory, 2007 (Belgrade: N. Milovanović, M. S. Dimitrijević). – 1 electronic optical disk (CD-ROM).
5. **Papers, photos and videos** [Electronic Source], IV Serbian – Bulgarian Astronomical Conference, Belgrade, Serbia, 21–24 April 2004, edited by Milan S. Dimitrijević, Valeri Golev, Luka Č. Popović, Milcho Tsvetkov. – Belgrade, Astronomical Society "Ruđer

Bošković", 2007 (Belgrade: N. Milovanović: M. S. Dimitrijević). – 1 electronic optical disk (CD-ROM).



6. Abstracts, presentations, photos and videos [Electronic Source], 6th Serbian Conference on Spectral Line Shapes in Astrophysics, Sremski Karlovci, Serbia, 11–15. June 2007, edited by Milan S. Dimitrijević and Luka Č. Popović, Organized by Astronomical Observatory, Belgrade. – Belgrade, Astronomical Observatory, 2007 (Beograd: N. Milovanović: M. S. Dimitrijević). – 1 electronic optical disk (DVD).

7. Papers and photos [Electronic Source], 2nd Serbian – Bulgarian Astronomical Meeting, Zaječar, Serbia, June 23–26, 2000, edited by Milan S. Dimitrijević, Luka Č. Popović and Milcho Tsvetkov, organized by Astronomical Observatory, Belgrade. – Beograd, Astronomical Observatory, 2007 (Beograd: N. Milovanović: M. S. Dimitrijević). – 1 electronic optical disk (CD-ROM).



8. Development of astronomy among Serbs, III, in Serbian, Belgrade 25–28. April 2004. [Electronic Source], Editor Milan S. Dimitrijević, organizer Astronomical Society "Ruđer

Bošković”, disk prepared by Milan S. Dimitrijević and Tatjana Milovanov. – Electronic edition – Belgrade: Astronomical Society “Ruđer Bošković”, Astronomical Observatory, 2007 (Belgrade: Astronomical Society “Ruđer Bošković”) – 1 electronic optical disk (CD-ROM).

9. Development of astronomy among Serbs, IV, in Serbian, Belgrade 22–26. April 2006. [Electronic Source], Editor Milan S. Dimitrijević, organizer Astronomical Society “Ruđer Bošković”, disk prepared by Milan S. Dimitrijević and Tatjana Milovanov. – Electronic edition – Belgrade: Astronomical Society “Ruđer Bošković”, Astronomical Observatory, 2007 (Belgrade: Astronomical Society “Ruđer Bošković”) – 1 electronic optical disk (CD-ROM).

10. I Hungarian–Yugoslav astronomical conference, Baja, Hungary, 26–27. April, 1995 [Electronic Source], edited by Ištvan Vince, Milan S. Dimitrijević and Lajos Balazs ; CD prepared by Milan S. Dimitrijević and Tatjana Milovanov. – Belgrade: Astronomical Observatory, 2008 (Belgrade: Astronomical Observatory). – 1 electronic optical disk (CD-ROM).

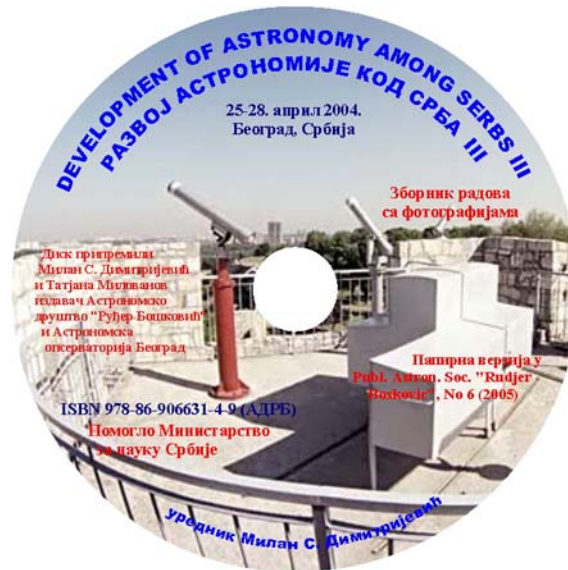
11. X National conference of Yugoslav astronomers, Belgrade, 22–24. September, 1993 [Electronic Source], organized by Astronomical Observatory Belgrade, edited by Milan S. Dimitrijević and Dragutin Đurović, CD prepared by Milan S. Dimitrijević and Tatjana Milovanov. – Belgrade: Astronomical Observatory, 2008 (Belgrade: Astronomical Observatory). – 1 electronic optical disk (CD-ROM).



12. I Yugoslav conference on spectral line shapes, September 11–14, 1995, Krivaja [Electronic Source], organized by Astronomical Observatory Belgrade, edited by Milan S. Dimitrijević and Luka Č. Popović, CD prepared by Milan S. Dimitrijević and Tatjana Milovanov. – Belgrade: Astronomical Observatory, 2008 (Belgrade: Astronomical Observatory). – 1 electronic optical disk (CD-ROM).

13. Line shapes investigations in Yugoslavia and Serbia [Electronic Source]: (**bibliography and citation index**), Milan S. Dimitrijević. – CD prepared by Milan S. Dimitrijević and Tatjana Milovanov. – Belgrade: (Belgrade: Astronomical Observatory), Belgrade 2009 – 1. Electronic optical disk (CD-ROM) (Electronic Source is electronic version of books 1–5

with the same name, published in edition “Publications of Astronomical Observatory in Belgrade”).



14. Proceedings and photos [Electronic Source], II Yugoslav Conference on Spectral Line Shapes, September 29 – October 2, 1997, Bela Crkva, Yugoslavia, organized by Faculty of Physics, University of Belgrade, edited by Luka Č. Popović and Milivoje Ćuk, CD prepared by Milan S. Dimitrijević and Tatjana Milovanov. – Belgrade: Astronomical Observatory, 2008 (Belgrade: Astronomical Observatory). – 1 electronic optical disk (CD–ROM).

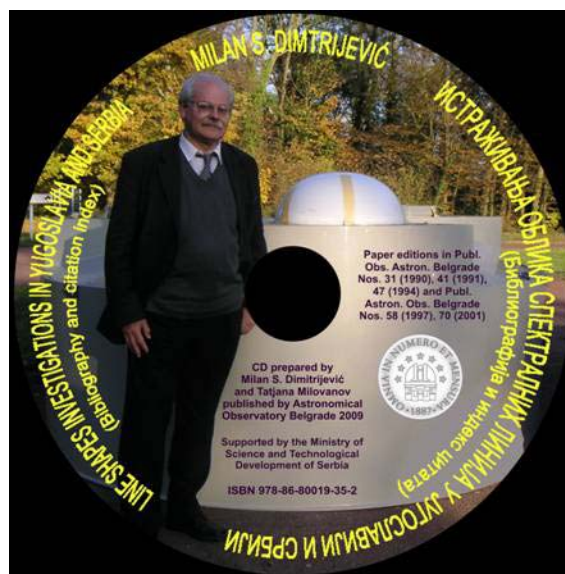
15. Abstracts, presentations and photos [Electronic Source] The First Summer School in Astronomy and Geophysics, August 6–11, 2007, Belgrade, Serbia; eds. Milan S. Dimitrijević, Nadežda Pejović, Anđelka Kovačević, organized by Faculty of Mathematics, Belgrade. CD prepared by Milan S. Dimitrijević and Tatjana Milovanov – Belgrade: Astronomical Observatory, 2008 (Beograd: Astronomiska opservatorija). – 1 Electronic optical disk (DVD).



16. 9 Development of astronomy among Serbs, I, on the occasion of 110th jubilee celebration of the Belgrade Astronomical Observatory, in Serbian, Belgrade 7–9. April 1997.

[Electronic Source], Editors Milan S. Dimitrijević, Jelena Milogradov–Turin, Luka Č. Popović, organizer Astronomical Observatory, disk prepared by Milan S. Dimitrijević and Tatjana Milovanov. – Electronic edition – Belgrade: Astronomical Observatory, 2008 (Belgrade: Astronomical Observatory) – 1 electronic optical disk (CD–ROM).

17. Abstracts, program and photos [Electronic Source], 7th Serbian Conference on Spectral Line Shapes in Astrophysics, June 15–19, 2009, Zrenjanin, Serbia; edited by Luka Č. Popović, M. S. Dimitrijević, D. Jevremović, D. Ilić, Organized by Serbian Astronomical Society and Astronomical Observatory, Belgrade. DVD prepared by Milan S. Dimitrijević, Miodrag Dačić and Tatjana Milovanov – Belgrade: Serbian Astronomical Society: Astronomical Observatory, 2009 (Beograd: Astronomical Observatory). – 1 Electronic optical disk (DVD).



18. Proceedings, photos and videos [Electronic Source], The 5th Bulgarian–Serbian Conference on Astronomy and Space Science, May 9–12, 2006, Sofia, Bulgaria, edited by M. K. Tsvetkov, L. Filipov, M. S. Dimitrijević, L. Č. Popović, organized by the Space Research Institute of the Bulgarian Academy of Sciences. DVD prepared by Milan S. Dimitrijević and Tatjana Milovanov – Belgrade: Serbian Astronomical Society: Astronomical Observatory, 2009 (Belgrade: Astronomical Observatory). – 1 Electronic optical disk (DVD).

19. Proceedings, photos and videos [Electronic Source], VI Serbian–Bulgarian Astronomical Conference, May 7–11, 2008, Belgrade, organized by Astronomical Observatory, Mathematical Faculty and Astronomical Society "Ruđer Bošković", Belgrade, edited by Milan S. Dimitrijević, Milcho Tsvetkov, Luka Č. Popović and Valeri Golev. DVD prepared by Milan S. Dimitrijević and Tatjana Milovanov – Belgrade: Astronomical Observatory, 2009 (Belgrade: Astronomical Observatory). – 1 Electronic optical disk (CD–ROM) (Publications of Astronomical Society "Ruđer Bošković", No. 9).

20. Program, presentations and photos [Electronic Source] The Second Summer School in Astronomy, September 29 – October 1, 2008, Belgrade, Serbia, eds. Milan S. Dimitrijević, Anđelka Kovačević, organized by Faculty of Mathematics, Belgrade, Astronomical Observatory, Belgrade, and University of Novi Sad, Faculty of Sciences. DVD prepared by Milan S.

Dimitrijević and Tatjana Milovanov – Belgrade: Astronomical Observatory, 2009 (Belgrade: Astronomical Observatory). – 1 Electronic optical disk (DVD).

21. 24TH Summer school and international symposium on the physics of ionized gases – [SPIG 2008], August 25–29, 2008, Novi Sad, Serbia, organized by Astronomical Observatory Belgrade, edited by Gordana Malović, Luka Č. Popović and Milan S. Dimitrijević. DVD prepared by Milan S. Dimitrijević and Tatjana Milovanov – Belgrade: Astronomical Observatory, 2008 (Belgrade: Astronomical Observatory). – 1 electronic optical disk (DVD).

22. Development of astronomy among Serbs, V, in Serbian, Belgrade 18–22. April 2008. [Electronic Source], Editor Milan S. Dimitrijević, organizer Astronomical Society “Ruđer Bošković”, disk prepared by Milan S. Dimitrijević and Tatjana Milovanov. – Electronic edition – Belgrade: Astronomical Society “Ruđer Bošković”, Society of Astronomers of Serbia, 2009 (Belgrade: Astronomical Society “Ruđer Bošković”) – 1 electronic optical disk (DVD).

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ЕЛЕКТРОНСКА ИЗДАЊА БЕОГРАДСКИХ АСТРОНОМСКИХ ИНСТИТУЦИЈА

Са електронским издаваштвом започели смо на Астрономској опсерваторији 2006. године. Мотиви су били двојаки. Са једне стране, желео сам да радови из књига које сам уредио и са конференција које сам организовао буду доступни преко великих међународних база података као што је Насин АДС. Са друге пак, електронско издање омогућује да се сачува, и уврсти у библиотеке, виртуалне библиотеке и базе података као што је Српска виртуелна опсерваторија и материјал који не иде у књиге, као што су велики број фотографија, видео записи и презентације предавача, при чему су рецимо фотографије у облику погодном за штампање и коришћење у другим публикацијама. Дугорочнији циљ је да дигитализујемо зборнике са свих конференција које смо организовали и приредимо и њихова званична електронска издања, која ће имати ЦИП Народне библиотеке и ISBN број, а у која ће бити укључен и онај постојећи материјал кога нема у папирној верзији, или је тамо одштампан некавалитетно.

До данас су публикована 22 компакт диска и ДВДа, а издавачи су били Астрономска опсерваторија, Астрономско друштво „Руђер Бошковић“, Друштво астронома Србије и Природњачко друштво „ГЕА“ из Вршца. Они се предају библиотекама, као што је Народна библиотека, Библиотека Матице српске, Библиотека Париске опсерваторије, Насином АДСу, Националном центру за дигитализацију и другим институцијама, библиотекама и базама података.

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