

CURRICULUM VITAE

DEJAN UROŠEVIĆ **18. I 2006.**

Education History

B.Sc. 1994 Astrophysics, Department of Astronomy, Faculty of Mathematics, University of Belgrade

M.Sc. 1996 Astrophysics, Department of Astronomy, Faculty of Mathematics, University of Belgrade

Supervisor: Prof. Dr. Jelena Milogradov-Turin

Title: "Geometry of radio loops"

Ph.D. 2001 Astrophysics, Department of Astronomy, Faculty of Mathematics, University of Belgrade

Supervisors: Prof. Dr. Nebojsa Duric and Prof. Dr. Jelena Milogradov-Turin

Title: "The $\Sigma - D$ relation as an indicator of radio loop origin"

Summary of Academic Interests

Teaching: Undergraduates and Graduate students.

Research: Radio astronomy and evolution of supernova remnants.

Employment History

Junior teaching assistant, Department of Astronomy, Faculty of Mathematics, University of Belgrade (1994-1997)

Teaching assistant, Department of Astronomy, Faculty of Mathematics, University of Belgrade (1997-2001)

Assistant professor, Department of Astronomy, Faculty of Mathematics, University of Belgrade (2001 -)

Academic Awards

Prize: "Prof. Zaharije Brkić" for the best undergraduate student for 1993/1994 school year at the Department of Astronomy, Faculty of Mathematics, University of Belgrade.

Articles in Refereed Journals

1. J. Milogradov-Turin and D. Urošević, 1997: "Geometry of Large Radio Loops at 1420 MHz", Bull. Astron. Belgrade, No. 155, 41-45.
2. D. Urošević and J. Milogradov-Turin, 1998: "Distances to the Origem and Monoceros Loops", Serb. Astron. J., No. 157, 35-38.
3. D. Urošević, 2002: "Updated $\Sigma - D$ Relations and Main Radio Loops as SNRs", Ukrainian Journal of Physics, vol.47 (No. 3), 301-306.
4. D. Urošević, 2002: "Empirical $\Sigma - D$ Relations and Main Galactic Radio Loops", Serb. Astron. J., No. 165, 27-43. (Review paper)
5. D. Urošević, 2003: " $\Sigma - D$ Relations and Main Galactic Radio Loops", Astrophysics & Space Science, vol. 283, 75-86.
6. D. Urošević, N. Duric, and T. Pannuti, 2003: "A Modified Theoretical $\Sigma - D$ Relation for Supernova Remnants: I. The Case of Constant Temperature Within the Supernova Remnant", Serb. Astron. J., No. 166, 61-66.
7. D. Urošević, N. Duric, and T. Pannuti, 2003: "A Modified Theoretical $\Sigma - D$ Relation for Supernova Remnants: II. The Case of Variable Temperature Within the Supernova Remnant", Serb. Astron. J., No. 166, 67-70.
8. B. Arbutina, D. Urošević, M. Stanković, and Lj. Tešić, 2004: " $L - D$ Dependence for Supernova Remnants and its Connection with the $\Sigma - D$ Relation", Monthly Notices of the Royal Astronomical Society, vol. 350, 346-350.
9. D. Urošević, T. Pannuti, N. Duric, and A. Theodorou, 2005: "The $\Sigma - D$ Relation for Supernova Remnants in Nearby Galaxies", Astronomy & Astrophysics, vol. 435, 437-447.
10. B. Vukotić, I. Bojičić, T. G. Pannuti, and D. Urošević, 2005: "A Search for Candidate Radio Supernova Remnants in the Nearby Irregular Starburst Galaxies NGC 4214 AND NGC 4395", Serb. Astron. J., No. 170, 101-110.
11. B. Arbutina and D. Urošević, 2005: " $\Sigma - D$ Relation for Supernova Remnants and its Dependence on the Density of ISM", Monthly Notices of the Royal Astronomical Society, vol. 360, 76-80.
12. D. Urošević and T. Pannuti, 2005: "Thermal Emission at Radio Frequencies from Supernova Remnants and a Modified Theoretical $\Sigma - D$ Relation", Astroparticle Physics, vol. 23, 577-587.
13. B. Vukotić, B. Arbutina and D. Urošević, 2006: "On the Magnetic Field Evolution in Supernova Remnants", Revista Mexicana de Astronomia y Astrofisica, *submitted*.
14. V. Borka, J. Milogradov-Turin and D. Urošević, 2006: "Brightness of Galactic Radio Loops at 1420 MHz", New Astronomy, *submitted*.
15. D. Urošević, T.G. Pannuti, W.W. Tian and D. Leahy, 2006: "Thermal Radio Emission from Supernova Remnants: The spectrum of HB3", *in preparation*.

Articles and Abstracts Appearing in Edited Volumes

1. J. Milogradov-Turin and D. Urošević, 1996: "The Origen and Monoceros Loops at 1420 MHz", Proceedings of the XI National Conference of Yugoslav Astronomers; October 9-11, 1996, Belgrade; (Eds. M. Vukićević-Karabin and Z. Knežević) Publ. Astron. Obs. Belgrade, No. 54, 47-48.
2. D. Urošević, 1999: "Main Radio Loops and Their Connection With Updated $\Sigma - D$ Relations", Proceedings of the XII National Conference of Yugoslav Astronomers and International Workshop on the Development of Astronomical Databases; November 19-21, 1999, Belgrade; (Eds. L. Č. Popović and M. Dačić), Publ. Astron. Obs. Belgrade, No. 65, 111-113.
3. T.G. Pannuti, D.A. Swartz, N. Duric and D. Urosevic, 2002: "An X-ray, Optical and Radio Search for Supernova Remnants in M81", Bulletin of the American Astronomical Society, vol. 34 (No. 2), p. 692 (AAS Meeting, 200, 35.05) - abstract.
4. L. Chomiuk, S. Stanimirovic, C. Salter, R. Bhat, D. Urosevic and D. Lorimer, 2002: "Arecibo grasps a possible interaction between SNR G42.8+0.6 and a Molecular Cloud", Bulletin of the American Astronomical Society (AAS Meeting, 201, 143.02) - abstract.
5. S. Stanimirović, L. Chomiuk, C. J. Salter, D. Urošević, R. Bhat and D. R. Lorimer, 2003: "A Possible Interaction Between SNR G42.8+0.6 and a Molecular Cloud", Proceedings of the XIII National Conference of Yugoslav Astronomers; October 17-20, 2002, Belgrade; (Eds. J. Milogradov-Turin and G. Popović), Publ. Astron. Obs. Belgrade, No. 75, 67-70.
6. M. Stanković, Lj. Tešić and D. Urošević, 2003: " $L - D$ Dependence for Supernova Remnants", Proceedings of the XIII National Conference of Yugoslav Astronomers; October 17-20, 2002, Belgrade; (Eds. J. Milogradov-Turin and G. Popović), Publ. Astron. Obs. Belgrade, No. 75, 71-74.
7. D. Urošević, 2003: " $\Sigma - D$ Relation as Indicator of Radio Loops Origin", Proceedings of the XIII National Conference of Yugoslav Astronomers; October 17-20, 2002, Belgrade; (Eds. J. Milogradov-Turin and G. Popović), Publ. Astron. Obs. Belgrade, No. 75, 141 - abstract (Ph.D. thesis).
8. D. Urošević, 2004: "Evolucija radio-sjaja ostataka supernovih zvezda: najnoviji prilozi empiriji i teoriji"; Zbornik radova sa Kongresa fizičara Srbije i Crne Gore, Petrovac na moru 3-5. jun 2004; Urednici: N. Konjević, B. Vujičić i P. Miranović; Sekcija 7, 19-26.
9. D. Urošević, 2005: "Theoretical $\Sigma - D$ Relation for Supernova Remnants", Proc. IV Serbian - Bulgarian Astronomical Conference, Belgrade 21-24 April 2004, eds. M.S. Dimitrijević, V. Golev, L.Č. Popović, M. Tsvetkov, Publ. Astron. Soc. "Rudjer Bošković", No. 5, 113-127.

Invited Presentations

1. "Updated $\Sigma - D$ Relations and Main Radio Loops as SNRs", The XIII International Hutsulian Workshop "Methods of Theoretical & Mathematical Physics" Uzghorod - Kyiv - Ivano-Frankivsk - Rakhiv, Ukraine, September 2000.
2. "The Updated $\Sigma - D$ Relations for Supernova Remnants", Arecibo Observatory, Puerto Rico, USA, May 2002.
3. T.G. Pannuti, D.A. Swartz, N. Duric, D. Urosevic: "An X-ray, Optical and Radio Search for Supernova Remnants in M81", 200th AAS Meeting, Albuquerque, New Mexico, USA, June 2002.
4. "Theoretical $\Sigma - D$ Relation for Supernova Remnants", IV Serbian - Bulgarian Astronomical Conference, Belgrade, April 21-24, 2004.
5. "Evolucija radio-sjaja ostataka supernovih zvezda: najnoviji prilozi empiriji i teoriji"; Kongres fizičara Srbije i Crne Gore, Petrovac na moru, 3-5. jun 2004.

Contributed Presentations

1. "The Origen and Monoceros Loops at 1420 MHz", XI National Conference of Yugoslav Astronomers; October 9-11, 1996, Belgrade.
2. "Main Radio Loops and Their Connection With Updated $\Sigma - D$ Relations", XII National Conference of Yugoslav Astronomers and International Workshop on the Development of Astronomical Databases; November 19-21, 1999, Belgrade.
3. " $L-D$ Dependence for Supernova Remnants", XIII National Conference of Yugoslav Astronomers; October 17-20, 2002, Belgrade.
4. "A Possible Interaction Between SNR G42.8+0.6 and a Molecular Cloud", XIII National Conference of Yugoslav Astronomers; October 17-20, 2002, Belgrade.
5. L. Chomiuk, S. Stanimirovic, C. Salter, R. Bhat, D. Urošević and D. Lorimer: "Arecibo grasps a possible interaction between SNR G42.8+0.6 and a Molecular Cloud", 201th AAS Meeting, Seattle, Washington, USA, January 2003.
6. V. Borka, J. Milogradov-Turin and D. Urošević, 2005: "Brightness of Main Galactic Radio Loops at 1420 MHz", XIV National Conference of Astronomers of Serbia and Montenegro; October 12-15, 2005, Belgrade.
7. B. Vukotić, D. Urošević, B. Arbutina and I. Bojičić, 2005: "On the Magnetic Field Evolution of Supernova Remnants in Starburst Galaxy M82", XIV National Conference of Astronomers of Serbia and Montenegro; October 12-15, 2005, Belgrade.

Books and parts of books

1. D. Urošević, 2005: "Supernova Remnants in Nearby Galaxies", as invited review it will be published as a part of book on supernova remnants and pulsars, Publisher: Nova Publishers.
2. D. Urošević and J. Milogradov-Turin, 2005: "Teorijske osnove radio-astronomije (Theoretical fundamentals of Radio Astronomy)", manuscript in reviewing process.

Citations

My papers were cited 25 times (source "Astrophysical Data System - ADS", Harvard). The Citation database in the ADS is NOT complete. Auto-citation = 19. Hetero-citation = 6. I want to emphasise that my paper (Urošević, 2003 - No. 5 from refereed journal list) was cited by famous Virginia Trimble and Markus Aschwanden (2004) in prestige annual review "Astrophysics in 2003".

Classroom Teaching

EXERCISES:

[Fall 1994] **Radio Astronomy, Structure and Evolution of the Stars, Stellar Astronomy, Stellar Systems.**

[Spring 1995] **Radio Astronomy, Structure and Evolution of the Stars, Stellar Astronomy, Stellar Systems, General Astrophysics, Basic Astrophysics.**

[Fall 1995, 1996, 1997, 1998, 1999, 2000] **Radio Astronomy, Structure and Evolution of the Stars, Stellar Astronomy.**

[Spring 1996, 1997, 1998, 1999, 2000, 2001] **Radio Astronomy, Structure and Evolution of the Stars, Stellar Astronomy, Basic Astrophysics.**

LECTURES:

[Fall 2001, Spring 2002] **Radio Astronomy (with exercises)**

[Fall 2002, 2003] **Radio Astronomy, Teaching Methods in Astronomy & History of Astronomy.**

[Spring 2003] **Radio Astronomy, Teaching Methods in Astronomy & History of Astronomy.**

[Spring 2004] **Radio Astronomy, Teaching Methods in Astronomy & History of Astronomy, Basic Astrophysics.**

[Fall 2004, 2005] **Radio Astronomy, Teaching Methods in Astronomy & History of Astronomy, Basic Astrophysics.**

[Spring 2005, 2006] **Radio Astronomy, Teaching Methods in Astronomy & History of Astronomy.**

LECTURES (M.Sc./Ph.D. studies):

Theoretical Radio Astronomy, Observational Radio Astronomy, Hydrodynamical and Radio Evolution of Supernova Remnants (2001 - present)

SUPERVISION:

1. M.Sc. thesis: "Sjaj radio-petlji na 1420 MHz (Brightness of radio loops at 1420 MHz)", 2005; student: Vesna Borka.

2. CO-SUPERVISOR: M.Sc. thesis: "Kinematičke i fizičke osobine emisionih oblasti galaksije Mrk 817 (Kinematical and physical properties of emission regions of active galaxy Mrk 817)", 2005; student: Dragana Ilić.

3. M.Sc. thesis: "Značaj tipa supernove za hidrodinamičku i radio-evoluciju njenog ostatka (Importance of supernova type on the hydrodynamic and radio evolution of its remnant)", 2005; student: Bojan Arbutina.

Additionally, member of commissions for two M.Sc. thesis.

Academic Service

1. Public lecture: "Cosmic objects", Faculty of Philosophy, University of Belgrade, November 1999.

2. Public lecture: "Introduction in Astrophysics", Astronomy Days - Smederevo, August 2001.

3. Lectures in Petnica Science Center (1994 - present). This center near the Serbian town of Valjevo, is for talented elementary and especially high school pupils. Center runs a continuous astronomy seminar series.

4. Coordinator of Department of Astronomy Seminar Series (2000 - present).

5. Editor of the "Serbian Astronomical Journal" (2002 - present).

6. Vice - Dean of Faculty of Mathematics, University of Belgrade (2004 - present).