

# CURRICULUM VITAE

DEJAN UROŠEVIĆ (born 1970)      26. III 2025.

## 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 astrophysics, particle acceleration, supernova remnants, planetary nebulae, HII regions; history of astronomy.

## 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 - 2008)

Associate professor, Department of Astronomy, Faculty of Mathematics, University of Belgrade (2008 - 2015)

Professor, Department of Astronomy, Faculty of Mathematics, University of Belgrade (2015 - ...)

## 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. The annual award of Faculty of Mathematics for scientific results in year 2007th.

## Articles in Refereed Journals

1. J. Milogradov-Turin and D. Urošević, 1997: "Geometry of Large Radio Loops at 1420 MHz", Bulletin Astronomique de Belgrade, No. 155, 41-45.
2. D. Urošević and J. Milogradov-Turin, 1998: "Distances to the Origen and Monoceros Loops", Serbian Astronomical Journal, No. 157, 35-38.
3. D. Urošević, 2002: "Empirical  $\Sigma - D$  Relations and Main Galactic Radio Loops", Serbian Astronomical Journal, No. 165, 27-43. (review paper)
4. D. Urošević, 2003: " $\Sigma - D$  Relations and Main Galactic Radio Loops", Astrophysics & Space Science, vol. 283, 75-86.
5. 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", Serbian Astronomical Journal, No. 166, 61-66.
6. 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", Serbian Astronomical Journal, No. 166, 67-70.
7. 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.
8. 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.
9. B. Vukotić, I. Bojčić, 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", Serbian Astronomical Journal, No. 170, 101-110.
10. 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.
11. 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.
12. D. Urošević, T. Pannuti and D. Leahy, 2007: "An Analysis of the Broadband (22-3900 MHz) Radio Spectrum of HB3 (G132.7+1.3): the Detection of Thermal Radio Emission from an Evolved Supernova Remnant?", The Astrophysical Journal Letters, vol. 655, L41-L44.
13. B. Vukotić, B. Arbutina and D. Urošević, 2007: "On the Magnetic Field Evolution in Shell-Like Supernova Remnants", Revista Mexicana de Astronomia y Astrofisica, vol. 43, 33-43.
14. D. Urošević, B. Vukotić, B. Arbutina and D. Ilić, 2007: "The  $\Sigma - D$  Relation for Planetary Nebulae: Preliminary Analysis", Serbian Astronomical Journal, No. 174, 73-76.

15. D. Onić, B. Arbutina and D. Urošević, 2008: "Radial Dependence of Extinction in Parent Galaxies of Supernovae", *Revista Mexicana de Astronomia y Astrofisica*, vol. 44, 103-110.
16. V. Borka, J. Milogradov-Turin and D. Urošević, 2008: "Brightness of Galactic Radio Loops at 1420 MHz", *Astronomische Nachrichten*, vol. 329, No. 4, 397-402.
17. J. L. Payne, M. D. Filipović, W. C. Millar, E. J. Crawford, A. Y. De Horta, F. H. Stootman and D. Urošević, 2008: "Optical Spectra of Radio Planetary Nebulae in the Large Magellanic Cloud", *Serbian Astronomical Journal*, No. 177, 53-59.
18. D. Onić and D. Urošević, 2008: "The Analysis of the Possible Thermal Emission at Radio Frequencies from an Evolved Supernova Remnant HB 3 (G132.7+1.3): Revisited", *Serbian Astronomical Journal*, No. 177, 67-71.
19. D. Urošević, B. Vukotić, B. Arbutina, D. Ilić, M. Filipović, I. Bojičić, S. Šegan and S. Vidojević, 2009: "The  $\Sigma - D$  Relation for Planetary Nebulae", *Astronomy & Astrophysics*, vol. 495, 537-546.
20. V. Borka Jovanović and D. Urošević, 2009: "The Monoceros radio loop: Temperature, brightness, spectral index and distance", *Astronomische Nachrichten*, vol. 330, No. 7, 741-748.
21. B. Vukotić, D. Urošević, M.D. Filipović and J.L. Payne, 2009: "The  $\Sigma - D$  Analysis of Recently Detected Radio Planetary Nebulae in the Magellanic Clouds", *Astronomy & Astrophysics*, vol. 503, 855-858.
22. B. Arbutina, D. Ilić, K. Stavrev, D. Urošević, B. Vukotić and D. Onić, 2009: "Optical Observations of M81 Galaxy Group in Narrow Band [SII] and  $H\alpha$  Filters: Holmberg IX", *Serbian Astronomical Journal*, No. 179, 87-94.
23. D. Urošević, B. Vukotić, B. Arbutina and M. Sarevska, 2010: "The orthogonal fitting procedure for determination of the empirical  $\Sigma - D$  relations for supernova remnants: application to starburst galaxy M82", *The Astrophysical Journal*, vol. 719, 950-957.
24. V. Borka Jovanović and D. Urošević, 2011: "Temperature, brightness and spectral index of Cygnus radio loop", *Revista Mexicana de Astronomia y Astrofisica*, vol. 47, 159-171.
25. D. Urošević and V. Borka Jovanović, 2011: "The brightness temperatures of the main Galactic radio-loops at 22 MHz", *The Open Astronomy Journal*, vol. 4, 218-221.
26. B. Arbutina, D. Urošević, M. M. Andjelić, M. Z. Pavlović and B. Vukotić, 2012: "Modified equipartition calculation for supernova remnants", *The Astrophysical Journal*, vol. 746, 79 (8pp).
27. L. M. Bozzetto, M. D. Filipović, E. J. Crawford, F. Haberl, M. Sasaki, D. Urošević, W. Pietsch, J. L. Payne, A. Y. De Horta, M. Stupar, N. Tothill, J. Dickel, Y.-H. Chu and R. Gruendl, 2012: "Multi-frequency study of the Large Magellanic Cloud supernova remnant J0529-6653 near pulsar B0529-66", *Monthly Notices of the Royal Astronomical Society*, vol. 420, 2588-2595.
28. D. Borka, V. Borka Jovanović and D. Urošević, 2012: "Spectra of the HB 21 supernova remnant: Evidence of spectrum flattening at the low frequencies", *Revista Mexicana de Astronomia y Astrofisica*, vol. 48, 53-60.
29. A. Y. De Horta, M. D. Filipović, L. M. Bozzetto, P. Maggi, F. Haberl, E. J. Crawford, M. Sasaki, D. Urošević, W. Pietsch, R. Gruendl, J. Dickel, N. Tothill, Y.-H. Chu, J. L. Payne, and J.D. Collier, 2012: "Multi-frequency study of supernova remnants in the Large Magellanic Cloud. The case of SNR J0530 - 7007", *Astronomy and Astrophysics*, vol. 540, A25 (6pp).
30. D. Onić, D. Urošević, B. Arbutina and D. Leahy, 2012: "On the existence of the "radio thermally active" Galactic supernova remnants", *The Astrophysical Journal*, vol. 756, 61 (11pp).
31. L. M. Bozzetto, M. D. Filipović, D. Urošević and E. J. Crawford, 2012: "Radio-continuum observations of small, radially polarized supernova remnant J0519-6902 in the Large Magellanic Cloud", *Serbian Astronomical Journal*, No. 185, 25-33.

32. M. Z. Pavlović, D. Urošević, B. Vukotić, B. Arbutina and Ü. D. Göker, 2013: "The radio surface brightness to diameter relation for Galactic supernova remnants: sample selection and robust analysis with various fitting offsets", *The Astrophysical Journal Supplement Series*, vol. 204, 4 (16pp).
33. A. Y. De Horta, J. D. Collier, M. D. Filipović, E. J. Crawford, D. Urošević, F. H. Stootman and N.F.H. Tothill, 2013: "Radio confirmation of Galactic supernova remnant G308.3-1.4", *Monthly Notices of the Royal Astronomical Society*, vol. 428, 1980-1985.
34. T. Prodanović, T. Bogdanović and D. Urošević, 2013: "Galactic fly-bys: new source of lithium production", *Physical Review D*, vol. 87, 103014 (10pp).
35. L. M. Bozzetto, M. D. Filipović, E.J. Crawford, M. Sasaki, P. Maggi, F. Haberl, D. Urošević, J. L. Payne, A. Y. De Horta, M. Stupar, R. Gruendl and J. Dickel, 2013: "Multifrequency study of SNR J0533-7202, a new supernova remnant in the LMC", *Monthly Notices of the Royal Astronomical Society*, vol. 432, 2177-2181.
36. B. Arbutina, D. Urošević, M. M. Vučetić, M. Z. Pavlović and B. Vukotić, 2013: "Modified equipartition calculation for supernova remnants. Cases  $\alpha = 0.5$  and  $\alpha = 1$ ", *The Astrophysical Journal*, vol. 777, 31 (3pp).
37. M. M. Vučetić, B. Arbutina, D. Urošević, A. Dobardžić, M. Z. Pavlović, T. G. Pannuti, N. Petrov, 2013: "Optical observations of the nearby galaxy IC342 with narrow band [SII] and H $\alpha$  filters. I", *Serbian Astronomical Journal*, No. 187, 11-18.
38. L. M. Bozzetto, P. J. Kavanagh, P. Maggi, M. D. Filipović, M. Stupar, Q. A. Parker, W. A. Reid, M. Sasaki, F. Haberl, D. Urošević, J. Dickel, R. Sturm, R. Williams, M. Ehle, R. Gruendl, Y.-H. Chu, S. Points and E. J. Crawford, 2014: "Multi-frequency study of a new Fe-rich supernova remnant in the Large Magellanic Cloud, MCSNR J0508-6902", *Monthly Notices of the Royal Astronomical Society*, vol. 439, 1110-1124.
39. B. Vukotić, M. Jurković, D. Urošević and B. Arbutina, 2014: "On calibration of some distance scales in astrophysics", *Monthly Notices of the Royal Astronomical Society*, vol. 440, 2026-2035.
40. L. M. Bozzetto, M. D. Filipović, D. Urošević, R. Kothes and E. J. Crawford, 2014: "Radio-continuum study of Large Magellanic Cloud supernova remnant J0509-6731", *Monthly Notices of the Royal Astronomical Society*, vol. 440, 3220-3225.
41. E. J. Crawford, M. D. Filipović, R. L. McEntaffer, T. Brantseg, K. Heitritter, Q. Roper, F. Haberl and D. Urošević, 2014: "HF334: an unusual supernova remnant in the Small Magellanic Cloud", *The Astronomical Journal*, vol. 148, 99 (8pp).
42. D. Urošević, 2014: "On the radio spectra of supernova remnants", *Astrophysics & Space Science*, vol. 354, 541-552. (review paper)
43. M. Z. Pavlović, A. Dobardžić, B. Vukotić and D. Urošević, 2014: "Updated radio  $\Sigma - D$  relation for Galactic supernova remnants", *Serbian Astronomical Journal*, No. 189, 25-40.
44. M. M. Vučetić, B. Arbutina and D. Urošević, 2015: "Optical supernova remnants in nearby galaxies and their influence on star formation rates derived from H $\alpha$  emission", *Monthly Notices of the Royal Astronomical Society*, vol. 446, 943-958.
45. M. Lakićević, J. Th. van Loon, M. Meixner, K. Gordon, C. Bot, J. Roman-Duva, B. Babler, A. Bolatto, C. Engelbracht, M. Filipović, S. Hony, R. Indebetouw, K. Misselt, E. Montie, K. Okumura, P. Panuzzo, F. Patat, M. Sauvage, J. Seale, G. Sonneborn, T. Temim, D. Urošević and G. Zamarro, 2015: "The influence of supernova remnants on the interstellar medium in the Large Magellanic Cloud seen at 20-600  $\mu\text{m}$  wavelengths", *The Astrophysical Journal*, vol. 799, 50 (17pp).
46. D. Onić and D. Urošević, 2015: "On the continuum radio-spectrum of Cas A: possible evidence of the non-linear particle acceleration", *The Astrophysical Journal*, vol. 805, 119 (6pp).

47. P. Kostić, B. Vukotić, D. Urošević, B. Arbutina and T. Prodanović, 2016: "Interstellar medium structure and the slope of the radio  $\Sigma - D$  relation of supernova remnants", *Monthly Notices of the Royal Astronomical Society*, vol. 461, 1421-1430.
48. D. Onić, D. Urošević and D. Leahy, 2017: "A New Look at the Integrated Radio/Microwave Continuum Spectrum of Galactic Supernova Remnant IC 443", *The Astronomical Journal*, vol. 153, 32 (12pp).
49. H. Leverenz, M. D. Filipović, B. Vukotić, D. Urošević and K. Grieve, 2017: "Radio Planetary Nebulae in the Large Magellanic Cloud", *Monthly Notices of the Royal Astronomical Society*, vol. 468, 1794-1811.
50. L. M. Bozzetto, M. D. Filipović, B. Vukotić, M. Z. Pavlović, D. Urošević, P. J. Kavanagh, B. Arbutina, P. Maggi, M. Sasaki, F. Haberl, E.J. Crawford, Q. Roper, K. Grieve and S. D. Points, 2017: "Statistical Analysis of Supernova Remnants in the Large Magellanic Cloud", *The Astrophysical Journal Supplement Series*, vol. 230, 2 (30pp).
51. M. Z. Pavlović, D. Urošević, B. Arbutina, S. Orlando, N. Maxted and M. D. Filipović, 2018: "Radio Evolution of Supernova Remnants Including Non-Linear Particle Acceleration: Insights from Hydrodynamic Simulations", *The Astrophysical Journal*, vol. 852, 84 (12pp).
52. D. Urošević, M. Z. Pavlović and B. Arbutina, 2018: "On the foundation of equipartition in supernova remnants", *The Astrophysical Journal*, vol. 855, 59 (8pp).
53. N. I. Maxted, C. Braiding, G. F. Wong, G. P. Rowell, M. G. Burton, M. D. Filipović, F. Voisin, D. Urošević, B. Vukotić, M. Z. Pavlović, H. Sano and Y. Fukui, 2018: "Searching for an interstellar medium association for HESS J1534", *Monthly Notices of the Royal Astronomical Society*, vol. 480, 134-148.
54. R. Z. E. Alsaberi, C. Maitra, M. D. Filipović, L. M. Bozzetto, F. Haberl, P. Maggi, M. Sasaki, P. Manjlović, V. Velović, P. Kavanagh, N. I. Maxted, D. Urošević, G. P. Rowell, G. F. Wong, B.-Q. For, L. Staveley-Smith, R. P. Norris, T. Jarrett, R. Kothes, K. J. Luken, N. Hurley-Walker, H. Sano, D. Onić, S. Dai, T. G. Pannuti, N. F. H. Tothill, E. J. Crawford, I. Bojčić, H. Denes, N. McClure-Griffiths and Y. Fukui, 2019: "Discovery of a pulsar-powered bow shock nebula in the small magellanic cloud supernova remnant DEMS5", *Monthly Notices of the Royal Astronomical Society*, vol. 486, 2507-2524.
55. D. Onić, M. D. Filipović, I. Bojčić, N. Hurley-Walker, B. Arbutina, T. G. Pannuti, D. Urošević, N. Maxted, G. F. Wong, G. Rowell, M. E. Bell, J. R. Callingham, K. S. Dwarakanath, B.-Q. For, P. J. Hancock, L. Hindson, M. Johnston-Hollitt, A. D. Kapinska, E. Lenc, B. McKinley, J. Morgan, A. R. Offringa, L. E. Porter, P. Procopio, L. Staveley-Smith, R. B. Wayth, C. Wu and Q. Zheng, 2019: "Murchison Widefield Array and XMM-Newton observations of the Galactic supernova remnant G5.9+3.1", *Astronomy & Astrophysics*, vol. 625, A93 (10pp).
56. M. M. Vučetić, D. Ilić, O. V. Egorov, A. Moiseev, D. Onić, T. G. Pannuti, B. Arbutina, N. Petrov and D. Urošević, 2019: "Revealing the nature of central emission nebulae in the dwarf elliptical galaxy NGC 185", *Astronomy & Astrophysics*, vol. 628, A87 (14pp).
57. T. D. Joseph, M. D. Filipović, E. J. Crawford, E. L. Alexander, I. Bojčić, G. F. Wong, H. Leverenz, R. P. Norris, R. Z. E. Alsaberi, C. Anderson, L. A. Barnes, L. M. Bozzetto, F. Bufano, J. D. Bunton, F. Cavallaro, J. D. Collier, H. Denes, Y. Fukui, T. Galvin, F. Haberl, A. Ingallinera, A. D. Kapinska, B. S. Koribalski, R. Kothes, D. Li, P. Maggi, C. Maitra, P. Manojlović, J. Marvil, N. I. Maxted, A. N. O'Brien, J. M. Oliveira, C. M. Pennock, S. Riggi, G. Rowell, L. Rudnick, H. Sano, M. Sasaki, N. Seymour, R. Soria, M. Stupar, N. F. H. Tothill, C. Trigilio, K. Tsuge, G. Umana, D. Urošević, J. Th. van Loon, E. Vardoulaki, V. Velović, M. Yew, 2019: "The ASKAP-EMU Early Science Project: Radio Continuum Survey of the Small Magellanic Cloud", *Monthly Notices of the Royal Astronomical Society*, vol. 490, 1202-1219.

58. D. Urošević, B. Arbutina and D. Onić, 2019: "Particle acceleration in interstellar shocks", *Astrophysics & Space Science*, vol. 364, 185 (16pp). (review paper)
59. R. Z. Alsaberi, L. A. Barnes, M. D. Filipović, N. I. Maxted, H. Sano, G. Rowell, L. M. Bozzetto, S. Gurovich, D. Urošević, D. Onić, B.-Q. For, P. Manojlović, G. Wong, T. Galvin, P. Kavanagh, N. Ralph, E. J. Crawford, M. Sasaki, F. Haberl, P. Maggi, N. F. H. Tothill and Y. Fukui, 2019: "Radio emission from interstellar shocks: young type Ia supernova remnants and the case of N103B in the Large Magellanic cloud", *Astrophysics & Space Science*, vol. 364, 204 (16pp).
60. B. Vukotić, A. Čiprijanović, M.M. Vučetić, D. Onić and D. Urošević, 2019: "Updated radio  $\Sigma - D$  relation for Galactic supernova remnants - II", *Serbian Astronomical Journal*, No. 199, 23-37.
61. K. J. Luken, M. D. Filipović, N. I. Maxted, R. Kothes, R. P. Norris, J. R. Allison, R. Blackwell, C. Braiding, R. Brose, M. Burton, A. Y. De Horta, T. J. Galvin, L. Harvey-Smith, N. Hurley-Walker, D. Leahy, N. O. Ralph, Q. Roper, G. Rowell, I. Sushch, D. Urošević and G. F. Wong, 2020: "Radio Observations of Supernova Remnant G1.9+0.3", *Monthly Notices of the Royal Astronomical Society*, vol. 492, 2606-2621.
62. D. Urošević, 2020: "Determining the evolutionary status of supernova remnants", *Nature Astronomy*, vol. 4, 910-912.
63. M. Yew, M. D. Filipović, M. Stupar, S. D. Points, M. Sasaki, P. Maggi, F. Haberl, P. J. Kavanagh, Q. A. Parker, E. J. Crawford, B. Vukotić, D. Urošević, H. Sano, I. R. Seitzzahl, G. Rowell, D. Leahy, L. M. Bozzetto, C. Maitra, H. Leverenz, J. L. Payne, L. A. F. Park, R. Z. E. Alsaberi and T. G. Pannuti, 2021: "New Optically Identified Supernova Remnants in the Large Magellanic Cloud", *Monthly Notices of the Royal Astronomical Society*, vol. 500, 2336-2358.
64. I. S. Bojčić, M. D. Filipović, D. Urošević, Q. A. Parker and T. J. Galvin, 2021: "Determination of Planetary Nebulae angular diameters from radio continuum Spectral Energy Distribution modeling", *Monthly Notices of the Royal Astronomical Society*, vol. 503, 2887-2898.
65. M. D. Filipović, I. S. Bojčić, K. R. Grieve, R. P. Norris, N. F. H. Tothill, D. Shobhana, L. Rudnick, I. Prandoni, H. Andernach, N. Hurley-Walker, R. Z. E. Alsaberi, C. S. Anderson, J. D. Collier, E. J. Crawford, B.-Q. For, T. J. Galvin, F. Haberl, A. M. Hopkins, A. Ingallinera, P. J. Kavanagh, B. S. Koribalski, R. Kothes, D. Leahy, H. Leverenz, P. Maggi, C. Maitra, J. Marvil, T. G. Pannuti, L. A. F. Park, J. L. Payne, C. M. Pennock, S. Riggi, G. Rowell, H. Sano, M. Sasaki, L. Staveley-Smith, V. Triglio, G. Umana, D. Urošević, J. Th. van Loon and E. Vardoulaki, 2021: "Radio Continuum Sources behind the Large Magellanic Cloud", *Monthly Notices of the Royal Astronomical Society*, vol. 507, 2885-2904.
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67. D. Urošević, 2022: "On the Determination of the Evolutionary Status of Supernova Remnants from Radio Observation Data", *Publications of the Astronomical Society of the Pacific*, vol. 134, 061001 (9pp), review paper.
68. L. M. Bozzetto, M. D. Filipović, H. Sano, R. Z. E. Alsaberi, L. A. Barnes, I. S. Bojčić, R. Brose, L. Chomiuk, E. J. Crawford, S. Dai, M. Ghavam, F. Haberl, T. Hill, A. M. Hopkins, A. Ingallinera, T. Jarrett, P. J. Kavanagh, B. S. Koribalski, R. Kothes, D. Leahy, E. Lenc, I. Leonidaki, P. Maggi,

- C. Maitra, C. Matthew, J. L. Payne, C. M. Pennock, S. Points, W. Reid, S. Riggi, G. Rowell, M. Sasaki, S. Safi-Harb, J. Th. van Loon, N. F. H. Tothill, D. Urošević and F. Zangrandi, 2023: "New ASKAP Radio Supernova Remnant Candidates in the Large Magellanic Cloud", *Monthly Notices of the Royal Astronomical Society*, vol. 518, 2574-2598.
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7. "Nobelova nagrada za fiziku za 2006. godinu", XXV republički seminar o nastavi fizike, Vrnjačka Banja, April 12-14, 2007.
8. "Particle Acceleration in Strong Shocks: Influence on the Supernova Remnants Evolution in Radio", The VIIth Bulgarian-Serbian Astronomical Conference, Chepelare, Bulgaria, June 1-4, 2010.
9. "On the Particle Acceleration in the Strong Shocks", Second Symposium "Mathematics and applications", Belgrade, May 27-28, 2011.
10. "Optical detection of supernova remnants in the nearby galaxy IC342", IX Bulgarian-Serbian Astronomical Conference: Astroinformatics, Sofia, Bulgaria, July 2-4, 2014.
11. "On the Different Forms of Continuum Radio Spectra of Supernova Remnants: Theoretical Fundamentals", XVII National Conference of Astronomers of Serbia, Belgrade, September 23-27,

2014.

12. "Ostaci supernovih: najmoćniji akceleratori u Galaksiji", Ciklus predavanja: "Od Sunčevog sistema do granica Vasiona", Srpska akademija nauka i umetnosti, Beograd, 13. IV - 1. VI 2016.
13. D. Onić and D. Urošević: "Emission nebulae: structure and evolution - a brief review of the results", Proceedings of the XVIII National Conference of Astronomers of Serbia, Belgrade, October 17-21, 2017.
14. "On the Physical Foundation of equipartition in supernova remnants", VIII Symposium "Mathematics and applications", Belgrade, November 17-18, 2017.
15. "Evolution of supernova remnants and particle acceleration", Interstellar Medium in the Nearby Universe (A workshop on interstellar matter, light, and magnetic fields in our Milky Way and nearby galaxies), Bamberg, March 26-28, 2018.
16. "Supernova Explosions Above Vojvodina", 1st Conference "Elements and events on development of astronomy and physics in the region of today's Vojvodina", Novi Sad, Serbia, May 21, 2019.
17. "Proper Motion of Cyg Loop Filaments", XII Serbian-Bulgarian Astronomical Conference, Sokobanja, Serbia, September 25-29, 2020.
18. "Supernovae throughout the history", XIII Bulgarian-Serbian Astronomical Conference, Velinograd, Bulgaria, October 3-7, 2022.

## Contributed Presentations

1. "The Origem 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. M. Stanković, Lj. Tešić and D. Urošević: "L - D Dependence for Supernova Remnants", XIII National Conference of Yugoslav Astronomers; October 17-20, 2002, Belgrade.
4. S. Stanimirović, L. Chomiuk, C. J. Salter, D. Urošević, R. Bhat and D. R. Lorimer: "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. Urosevic and D. Lorimer: "Arecibo grasps a possible interaction between SNR G42.8+0.6 and a Molecular Cloud", 201th AAS Meeting, January 2003, Seattle, Washington, USA.
6. V. Borka, J. Milogradov-Turin and D. Urošević: "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, I. Bojičić and B. Arbutina: "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.
8. B. Arbutina, D. Urošević and B. Vukotić: "High Supernova Rate and Enhanced Star-Formation Triggered in M81-M82 Encounter", XXVIth General Assembly of IAU, IAU Symp. 237 (Triggered Star Formation in a Turbulent ISM); August 14-25, 2006, Prague, Czech Republic.
9. D. Urošević, B. Arbutina and B. Vukotić: "Thermal Radio Emission of Supernova Remnants: The Spectrum of HB3", XXVIth General Assembly of IAU, IAU Joint Discussions 09 (Supernovae: One Millennium after SN1006); August 14-25, 2006, Prague, Czech Republic.

10. D. Ilić, B. Arbutina, D. Urošević and B. Vukotić: "Optical Search for Supernova Remnants in M81 and M82", VI Serbian Conference on Spectral Line Shapes in Astrophysics, 11-15 June, 2007, Sremski Karlovci.
11. D. Ilić, D. Urošević, B. Arbutina, B. Vukotić and K. Stavrev: "Observations of M81 Galaxy Group in Narrow Band [SII] and  $H_{\alpha}$  Filters", VI Serbian-Bulgarian Astronomical Conference, 7-11 May, 2008, Belgrade.
12. V. Borka Jovanović and D. Urošević: "The Monoceros radio loop: temperature and brightness", Proceedings of the 24th SPIG; August 25-29, 2008, Novi Sad;
13. D. Onić, D. Urošević and B. Arbutina: "An Analysis of the Possible Thermal Emission at Radio Frequencies from Supernova Remnants G39.2-0.3 (3C396) and G156.2+5.7", XV National Conference of Astronomers of Serbia, 2-5 October, 2008, Belgrade.
14. V. Borka Jovanović and D. Urošević: "The Cygnus Radio Loop: Temperature and Brightness", XV National Conference of Astronomers of Serbia", 2-5 October, 2008, Belgrade.
15. M. Andjelić, K. Stavrev, B. Arbutina, D. Ilić and D. Urošević: "Observations of M81 Galaxy Group in Narrow Band [SII] and  $H_{\alpha}$  Filters: II", VII Bulgarian-Serbian Astronomical Conference, 1-4 June, 2010, Chepelare, Bulgaria.
16. V. Borka Jovanović and D. Urošević: "Spectral indices of radio loops", 25th Summer School and International Symposium on the Physics of Ionized Gases – SPIG, August, 30 September, 3, 2010, Donji Milanovac, Serbia.
17. M. Andjelić, K. Stavrev, B. Arbutina, D. Ilić and D. Urošević: "Observations of NGC 3077 Galaxy in Narrow Band [SII] and  $H_{\alpha}$  Filters", VIII Serbian Conference on Spectral Line Shapes in Astrophysics, 6-10 June, 2011, Divčibare.
18. "Equipartition calculation for supernova remnants", Cosmic Rays and their Interstellar Medium Environment (CRISM) conference, 26 June - 1 July, 2011, Montpellier, France.
19. B. Vukotić and D. Urošević: "The  $\Sigma - D$  relation for Galactic planetary nebulae: application of orthogonal fitting procedure", Planetary Nebulae: An Eye to the Future (IAUS 283), 25-29 July, 2011, Puerto de la Cruz, Tenerife, Spain.
20. "In Memoriam to Prof. Jelena Milogradov-Turin", XVI National Conference of Astronomers of Serbia", 10-12 October, 2011, Belgrade.
21. M.M. Andjelić, B. Arbutina, K. Stavrev and D. Urošević: "Star Formation Rate in Holmberg IX Dwarf Galaxy", XVI National Conference of Astronomers of Serbia", 10-12 October, 2011, Belgrade.
22. "Observations of Galaxy IC342 in Narrow Band [SII] and  $H_{\alpha}$  Filters", VIII Serbian-Bulgarian Astronomical Conference, 8-12 May, 2012, Leskovac, Serbia.
23. D. Urošević, M.Z. Pavlović, B. Arbutina and A. Dobardžić: "The Modified Equipartition Calculation for supernova remnants with the spectral index  $\alpha = 0.5$ ", XXVIIth General Assembly of IAU, SpS4 (New era for studying interstellar and intergalactic magnetic fields); August 20-31, 2012, Beijing, China.
24. "Optical Detection of the Emission Nebulae in Nearby Galaxies", Conference: "Future Science with Metre-Class Telescopes", 18-21 September, 2012, Belgrade, Serbia.
25. M.Z. Pavlović, A. Dobardžić, D. Urošević, B. Arbutina, D. Onić and B. Vukotić: "Updated Radio Surface-Brightness-to-Diameter Relation for Galactic Supernova Remnants", XVII National Conference of Astronomers of Serbia", 23-27 September, 2014, Belgrade.
26. Z. Knežević, D. Urošević and B. Arbutina: "Serbian Astronomical Journal in Science Citation Index and Journal Citation Report", XVII National Conference of Astronomers of Serbia", 23-27 September, 2014, Belgrade.

27. M. Vučetić, B. Arbutina and D. Urošević: "Supernova Remnants and Their Influence on  $H\alpha$  Derived Star Formation Rates", XVII National Conference of Astronomers of Serbia", 23-27 September, 2014, Belgrade.
28. D. Urošević and D. Onić, 2015: "The possible evidence of the non-linear particle acceleration in Cas A from Planck data", XXVIIIth IAU General Assembly, Focus Meeting 5 (The Legacy of Planck), August 3-14, 2015, Honolulu, USA.
29. M.Z. Pavlović, D. Urošević, B. Arbutina, A. Dobardžić, M.M. Vučetić, V. Zeković and D. Onić, 2016: "Radio Evolution of Supernova Remnants Including Non-Linear Particle Acceleration", X Serbian-Bulgarian Astronomical Conference, May 30 - June 3, 2016, Belgrade, Serbia.
30. M.M. Vučetić, B. Arbutina, M.Z. Pavlović, A. Čiprijanović, D. Urošević, N. Petrov, D. Onić and A. Trčka, 2016: "Observations of NGC185 Galaxy - Study of Supernova Remnants in a Dwarf Elliptical Galaxy", X Serbian-Bulgarian Astronomical Conference, May 30 - June 3, 2016, Belgrade, Serbia.
31. M.M. Vučetić, A. Trčka, B. Arbutina, A. Čiprijanović, M.Z. Pavlović, D. Urošević and N. Petrov, 2016: "Optical observations of NGC 1156 galaxy in narrowband [SII] and  $H\alpha$  filters", X Serbian-Bulgarian Astronomical Conference, May 30 - June 3, 2016, Belgrade, Serbia.
32. M.M. Vučetić, B. Arbutina, N. Petrov, A. Čiprijanović, M.Z. Pavlović and D. Urošević, 2018: "Optical observations of NGC 2366 galaxy in narrowband [SII] and  $H\alpha$  filters", XI Bulgarian-Serbian Astronomical Conference, 14 - 18 May 2018, Belogradchik, Bulgaria.
33. "Determination of the Evolutionary Status of Supernova Remnants from Radio: the Case Study of Tycho SNR", European Astronomical Society Annual Meeting, SS17 - Celebrating 450 yrs of Tycho's Nova Stella: the physics of supernova remnants, June 27th - July 1st, 2022, Valencia, Spain.

## Books and parts of books

1. D. Urošević and J. Milogradov-Turin, 2007: "Teorijske osnove radio-astronomije (Theoretical fundamentals of Radio Astronomy)", publisher: Faculty of Mathematics, Belgrade.
2. D. Urošević, 2007: "Supernova Remnants in Nearby Galaxies", as a part of book "Neutron Stars, Supernovae and Supernova Remnants", Eds. O. H. Guseinov, E. Yazgan and A. Ankay, publisher: Nova Science Publishers, New York, p. 137-154.

## Citations

My papers were cited over 1700 times (google scholar). Heterocitation: at least 950 times (basic source "Astrophysical Data System - ADS", Harvard). Total ADS citation - over 1300 times.

## 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, Fundamentals of 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, Fundamentals of 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, Fundamentals of Astrophysics.**

[Fall 2004, 2005, 2006, 2007, 2008] **Radio Astronomy, Teaching Methods in Astronomy & History of Astronomy, Fundamentals of Astrophysics.**

[Spring 2005, 2006, 2007, 2008, 2009] **Radio Astronomy, Teaching Methods in Astronomy & History of Astronomy.**

[Fall 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024] **Radio Astronomy, History of Astronomy, Interstellar Medium.**

[Spring 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2024, 2025] **Radio Astrophysics, Teaching Methods in Astronomy, Physics of Interstellar Matter**

LECTURES (Ph.D. studies):

**Magnetohydrodynamics, Selected Chapters of the Theoretical and Observational Radio Astronomy, Evolution of Supernova Remnants, Physics of the Interstellar Medium, The High Energy Processes in Supernova Remnants (2001 - present)**

SUPERVISION:

1. Magistarska teza (M.Sc. thesis): "Sjaj radio-petlji na 1420 MHz (Brightness of radio loops at 1420 MHz)", 2005; student: Vesna Borka.
2. Magistarska teza (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.
3. Magistarska teza (M.Sc. thesis): "Evolucija magnetnog polja u ostacima supernovih (Evolution of magnetic field in supernova remnants)", 2006; student: Branislav Vukotić.
4. Doktorska disertacija (Ph.D. thesis): "Spektri radio-petlji (Spectra of radio loops)", 2009; student: Vesna Borka Jovanović.
5. Diplomski master rad (master work): "Radio-evolucija ostatka supernove Cas A (Radio evolution of supernova remnant Cas A)", 2010; student: Maša Lakićević.
6. Diplomski master rad (master work): "Radio-evolucija ostatka supernove SN1006 (Radio evolution of supernova remnant SN1006)", 2010; student: Sladjana Nikolić.
7. Diplomski master rad (master work): "Nova  $\Sigma - D$  relacija za Galaktičke ostatke supernovih (The new  $\Sigma - D$  relation for the Galactic supernova remnants)", 2011; student: Marko Pavlović.
8. Diplomski master rad (master work): "Uticaj visokoenergetskih procesa na modulaciju MHD talasa tokom erupcija na Suncu (Influence of high-energy processes on modulation of MHD waves during Solar flares)", 2012; student: Vladimir Zeković.
9. Doktorska disertacija (Ph.D. thesis): "Termalno zračenje ostataka supernovih u

radio-području (Thermal radiation of supernova remnants in the radio-domain)", 2013; student: Dušan Onić.

10. Diplomski master rad (master work): " $\Sigma - D$  analiza za četiri nepravilne galaksije: NGC4449, NGC4214, NGC2366, NGC1569 ( $\Sigma - D$  analysis for four irregular galaxies: NGC4449, NGC4214, NGC2366, NGC1569)", 2014; student: Jelena Čorak.

11. Doktorska disertacija (Ph.D. thesis): "Modelovanje radio-evolucije ostataka supernovih na osnovu hidrodinamičkih simulacija i nelinearnog difuznog ubrzanja čestica (Modeling the radio evolution of supernova remnants by using hydrodynamic simulations and non-linear diffusive shock acceleration)", 2018; student: Marko Pavlović.

Additionally, member of commissions for many master, M.Sc. (magistarska thesis), and Ph.D. thesis; and anonymous examiner for many Ph.D. thesis

## Academic, Professional and Scientific Services

1. Editor of the "Serbian Astronomical Journal" (2002 - 2015). Editor-in-chief of the "Serbian Astronomical Journal" (2015 - 2023).
2. Vice - Dean of Faculty of Mathematics, University of Belgrade (2004 - 2007) and (2014 - present).
3. Head of Department of Astronomy, Faculty of Mathematics, University of Belgrade (2007 - 2014).
4. Head of the research project "Emission nebulae: structure and evolution" (176005) financed by the Ministry of Education, Science, and Technological Development of the Republic of Serbia (2011 - 2019).
5. Coordinator of Department of Astronomy Seminar Series (2000 - 2016).
6. Advisor for astronomy – National Geographic Serbia (2006 - 2023).
7. Member of the International Astronomical Union (IAU) – Commissions: 34 - Interstellar Medium and 40 - Radio Astronomy.
8. Member of the European Astronomical Society (EAS).
9. Lectures in Petnica Science Center (1994 - present). This is center for talented elementary and especially high school pupils - it runs a continuous astronomy seminar series.