

Curriculum Vitae

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Milica Vučetić

Position: Research Assistant Professor

Affiliation: Department of Astronomy, Faculty of Mathematics, University of Belgrade, Serbia

Date of birth: 19th September 1985

Marital status: married (maiden name Andjelić)

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Education & Research

B.Sc. in Astrophysics, 2009, Department of Astronomy, Faculty of Mathematics, University of Belgrade

Ph.D. in Astronomy and Astrophysics, 2017, Department of Astronomy, Faculty of Mathematics, University of Belgrade

Research interests: Optical detection of supernova remnants and HII regions; influence of optical SNRs on H α derived star formation rates; evolution of supernova remnants.

Employment

Junior Researcher, Department of Astronomy, Faculty of Mathematics, University of Belgrade, Project - Emission nebulae: structure and evolution (PI: Dejan Urošević), 2011 – 2012

Research Assistant, Department of Astronomy, Faculty of Mathematics, University of Belgrade, Project - Emission nebulae: structure and evolution (PI: Dejan Urošević), 2012 – 2018

Research Assistant Professor, Department of Astronomy, Faculty of Mathematics, University of Belgrade, 2018 –

Bibliography

Articles in Refereed Journals

1. Vukotić, B., Ćiprijanović, A., Vučetić, M. M., Onić, D., Urošević, D., 2019: "Updated Radio Σ -D Relation for Galactic Supernova Remnants - II", *Serb. Astron. J.*, **199**, 23-37 (IF 0.833, M23)
2. Vučetić, M. M., Ilić, D., Egorov, O. V., Moiseev, A., Onić, D., Pannuti, T. G., Arbutina, B., Petrov, N., Urošević, D., 2019: "Revealing the nature of central emission nebulae in the dwarf galaxy NGC 185", *Astron. & Astrophys.*, **628**, 87 (IF 6.209, M21)
3. Vučetić, M. M., Onić, D., Petrov, N., Ćiprijanović, A., Pavlović, M. Z., 2019: "Optical Observations of the Nearby Galaxy NGC 2366 through Narrow Band [SII] and H α Filters. Supernova remnant status", *Serb. Astron. J.*, **198**, 13-23 (IF 0.833 M23)
4. Vučetić, M. M., Ćiprijanović, A., Pavlović, M. Z., Pannuti, T. G., Petrov, N., Goker, U. D., Ercan, E. N., 2015: "Optical Observations of the Nearby Galaxy IC342 with Narrow Band [SII] and H α Filters. II – Detection of 16 optically-identified supernova remnant candidates", *Serb. Astron. J.*, **191**, 67-74 (IF 0.429, M23)
5. Vučetić, M. M., Arbutina, B., Urošević, D., 2015: "Optical supernova remnants in nearby galaxies and their influence on star formation rates derived from H α emission", *Mon. Not. R. Astron. Soc.*, **446**, 943-958 (IF 4.952, M21)
6. Vučetić, M. M., Arbutina, B., Urošević, D., Dobardžić, A.; Pavlović, M. Z., Pannuti, T. G., Petrov, N., 2013: "Optical Observations of the Nearby Galaxy IC342 with Narrow Band [SII] and H α Filters. I", *Serb. Astron. J.*, **187**, 11-18 (IF 1.1, M23)
7. Arbutina, B., Urošević, D., Vučetić, M. M., Pavlović, M. Z., Vukotić, B., 2013: "Modified Equipartition Calculation for Supernova Remnants. Cases $\alpha = 0.5$ and $\alpha = 1$ ", *Astrophys. J.*, **777**, 31-33 (IF 5.885, M21)
8. Arbutina, B., Urošević, D., Andjelić, M., Pavlović, M., Vukotić, B., 2012.: "Modified equipartition calculation for supernova remnants", *Astrophys. J.*, **746**, 79-86 (IF 5.945, M21)
9. Andjelić, M. M., 2011: "Star formation rate in Holmberg IX dwarf galaxy", 2011, *Serb. Astron. J.*, **183**, 71-75 (M24)

Articles Appearing in Edited Volumes

1. Vučetić, M. M., Trčka, A., Arbutina, B., Ćiprijanović, A., Pavlović, M. Z., Urošević, D., Petrov, N., 2018: "Optical observations of NGC 1156 galaxy in narrowband [SII] and H α filters", (Proceedings of 10th Serbian-Bulgarian Astronomical Conference, Belgrade, 2016), *Astronomical and Astrophysical Transactions*, **30**, 379-386
2. Arbutina, B., Urošević, D., Andjelić, M. M., Pavlović, M., 2011: "Equipartition calculation for supernova remnants", (Proceedings of Cosmic Rays and Their Interstellar Medium Environment (CRISM) conference, Montpellier, June 26-July 1, 2011) *Mem. S.A.It.*, **82**, 822-823
3. Andjelić, M., Stavrev, K., Arbutina, B., Ilić, D., Urošević, D., 2011: "Observations of the galaxy NGC 3077 in the narrow band [SII] and H α filters" (Proceedings of the VIII Serbian Conference on Spectral Line Shapes in Astrophysics, 6-10 June, 2011, Divčibare), *Baltic Astronomy*, **20**, 249-252

Abstracts Appearing in Edited Volume

1. Milanović, N., Vučetić, M. M., Onić, D., Raymond, J., Urošević, D., 2019, Proper motion of Cygnus loop filaments, Supernova Remnants II: – An Odyssey in Space after Stellar Death, Chania, Crete, Greece, June 3-8, 2019.
2. Vučetić, M. M., Ilić, D.; Egorov, O., Moiseev, A., Onić, D., Arbutina, B., Urošević, D., Petrov, N., Emission-lines of the dwarf elliptical galaxy NGC 185, 12th Serbian Conference on Spectral Line Shapes in Astrophysics, Vrdnik, Serbia, June 3-7, 2019.
3. Vučetić, M. M., Ilić, D., Egorov, O., Moiseev, A., Onić, D., Arbutina, B., Urošević, D., Petrov, N., 2019, 2019, Nature of the Central Emission Nebulae in the Dwarf Galaxy NGC 185, Diversity of the Local Universe, SAO, Russian Academy of Sciences, Nizhnij Archyz, September 30 – October 4, 2019.
4. Vučetić, M. M., Arbutina, B., Ilić, D., Moiseev, A., Egorov, A., Urošević, D., 2018: “Supernova remnants in dwarf elliptical galaxy NGC185”, (IAU Symposia 344: Dwarf Galaxies: From the Deep Universe to the Present, August 2018, Vienna)
5. Vučetić, M. M., Arbutina, B., Petrov, N., Ćiprijanović, A., Pavlović, M. Z., Urošević, D., 2018: “Optical observations of NGC 2366 galaxy in narrowband [SII] and H α filters”, (Proceedings of 11th Bulgarian - Serbian Astronomical Conference, Belogradchik, Bulgaria, 2018)
6. Vučetić, M. M., Arbutina, B., Pavlović, M. Z., Ćiprijanović, A., Urošević, D., Onić, D., Trčka, A., 2016: “Optical observation of supernova remnant in elliptical galaxy NGC 185”, (Supernova Remnants: An Odyssey in Space after Stellar Death, Proceedings of the Conference held 6-11 June 2016, in Chania, Greece. Online at <http://snr2016.astro.noa.gr>, id.34)
7. Arbutina, B., Vučetić, M. M., 2016: “Some statistics of optical supernova remnant candidates in nearby galaxies”, (Supernova Remnants: An Odyssey in Space after Stellar Death, Proceedings of the Conference held 6-11 June 2016, in Chania, Greece. Online at <http://snr2016.astro.noa.gr>, id.13)
8. Andjelić, M. M., Arbutina, B., Stavrev, K., Urošević, D., 2012: “Star Formation Rate in Holmberg IX Dwarf Galaxy”, (XVI Nac. Conf. Astron. Serbia, October 10-12, 2011, Belgrade) *Publ. Astron. Obs. Belgrade*, 91, 241
9. Andjelić, M. M., Arbutina, B., Urošević, D., Dobardžić, A., Pavlović, M. Z., 2012: “Observations of Galaxy IC342 in Narrow Band [SII] and H α Filters”, (8th Serbian-Bulgarian Astronomical Conference, May 08-12, 2012, Leskovac)
10. Andjelić, M., Stavrev, K., Arbutina, B., Ilić, D., Urošević, D., 2010: “Observations of M81 Galaxy Group in Narrow Band [SII] and H α Filters. II”, (7th Serbian-Bulgarian Astronomical Conference, June 01-04, 2010, Chepelare, Bulgaria)

Citation number: 47 (as Vučetić) + 50 (as Andjelić)

Workshops and Summer schools

Summer School on Life and death of stars (2007, Utrecht, Holland)

The 1st Summer School in Astronomy and Geophysics (2007, Belgrade, Serbia)

The 3rd International School in Astronomy: Astroinformatics - Virtual Observatory (2010, Belgrade, Serbia)

Awareness Conference „Hot topics in Astrophysics“ (2013, Bucharest, Romania)

The 1st Gutenberg Astrophysics Workshop & Winter School (2014, Strasbourg, France)

Other relevant activities

Observing runs at 2 m telescope at the National Astronomical Observatory Rozhen, Bulgaria (2010-)

Observing run at 1.5 m Russian Turkish telescope at TÜBİTAK National Observatory, Turkey (2016)

Observing run at 6 m telescope at Special Astrophysical Observatory of Russian Academy of Science (2017)

Lectures at Petnica Science Center, astronomy seminar series for talented elementary and high school pupils (2010-)

Skills

Basic programming, data reduction and data analysis of optical astronomical images

Languages

Serbian (native speaker)

English (fluent)

Other Interests

Speleology, mountaineering