

Dušan Onić / Curriculum vitae

Date of birth: 04th October 1982

Place of Birth: Belgrade, Serbia

E-mail address: donic@matf.bg.ac.rs

Education & Research

Ph.D. in astrophysics, 2013 (Faculty of Mathematics, University of Belgrade, Serbia)

Title: Thermal radiation of supernova remnants in radio-domain

Main topics of research: Supernova remnants, Plasma astrophysics

Teaching and Jobs

Junior teaching assistant (astronomy & astrophysics related courses), 2007-2009

Teaching assistant (astronomy & astrophysics related courses), 2010-2015

Assistant Professor (astronomy & astrophysics related courses), 2015-

at Department of Astronomy, Faculty of Mathematics, University of Belgrade, Serbia

Research Associate - Project No. 176005 "Emission nebulae: structure and evolution" of the Ministry of Education, Science, and Technological Development of the Republic of Serbia

Publications

Onić, D., Arbutina, B. and Urošević, D., 2008: Radial Dependence of Extinction in Parent Galaxies of Supernovae, *Revista Mexicana de Astronomia y Astrofisica*, **44**, 103

Onić, D. and Urošević, D., 2008: The Analysis of the Possible Thermal Emission at Radio Frequencies from an Evolved Supernova Remnant HB 3 (G132.7+1.3): Revisited, *Serb. Astron. J.*, **177**, 67

Onić, D., Urošević, D. and Arbutina, B., 2008: The analysis of the possible thermal emission at radio frequencies from supernova remnants G39.2-0.3 (3C396) and G156.2+5.7, Proceedings of the XV National Conference of Astronomers of Serbia; October 2-5, 2008, Belgrade; *Publ. Astron. Obs. Belgrade*, **86**, 95 (SHORT TALK)

Arbutina, B., Ilić, D., Stavrev, K., Urošević, D., Vukotić, B., Onić, D., 2009: Optical Observations of M81 Galaxy Group in Narrow Band [SII] and H α Filters: Holmberg IX, *Serb. Astron. J.*, **179**, 87

Onić, D., Urošević, D. and Arbutina, B., 2009: The Possible Thermal Emission at Radio Frequencies from Supernova Remnants G39.2-0.3 and G156.2+5.7, IAU XXVII th General Assembly, August 3-14, 2009, Rio de Janeiro; JD14, Book of abstracts, p.352 (POSTER)

Onić, D., Čadež, V.M., 2010: Effects Of Radiation On Convective Instability In Stratified Stellar Plasmas, Proceedings of the 24th summer school and international symposium on the physics of ionized gases; 23 August - 3 September, 2010, Donji Milanovac; *Publ. Astron. Obs. Belgrade*, **89**, 379 (POSTER)

Onić, D., 2011: The search for Galactic supernova remnants with Fermi-LAT, XVI National Conference of Astronomers of Serbia, October 10-12, 2011, Belgrade; Book of abstracts, p. 30 (SHORT TALK)

Onić, D., Urošević, D., Arbutina, B. and Leahy, D., 2012: On the existence of the "radio thermally active" Galactic supernova remnants, *The Astrophysical Journal*, **756**, 61

Onić, D., 2013: On the supernova remnants with flat radio spectra, *Astrophysics & Space Science*, **346**, 3

Onić, D., 2013: Distilled shock conditions for ideal magneto-acoustic shock waves in an optically thick medium, *Journal of Plasma Physics*, **79**, 457

Onić, D., Urošević, D., 2015: On the Continuum Radio Spectrum of Cas A: Possible Evidence of Non-Linear Particle Acceleration, *The Astrophysical Journal*, **805**, 119

Onić, D., 2015: On the integrated continuum radio spectrum of supernova remnant W44 (G34.7-0.4): new insights from Planck, *Serb. Astron. J.*, **191**, 29

Onić, D., 2016: On the shape of SNR IC 443 radio to infrared continuum spectrum, Supernova Remnants: An Odyssey in Space after Stellar death, June 06-11, 2016, Chania, Crete; Book of abstracts, p. 30 (POSTER)

Onić, D., Urošević, and D. Leahy, D., 2017: A New Look at the Integrated Radio/Microwave Continuum Spectrum of Galactic Supernova Remnant IC 443, *The Astronomical Journal*, **153**, 32

Conferences, Workshops and Summer schools

15th National Conference of Astronomers of Serbia, Short Talk, Belgrade, 2008

27th IAU General Assembly, JD14, Poster, Rio de Janeiro, 2009

25th Summer School and International Symposium on the Physics of Ionized Gases, Poster, Donji Milanovac, 2010

2nd School on Multiwavelength Astronomy, Amsterdam, 2010

16th National Conference of Astronomers of Serbia, Short Talk, Belgrade, 2011

11th XMM-Newton SAS Workshop, European Space Astronomy Center, Madrid, 2011

Cargèse School on Cosmic Accelerators, Carègse, Corsica, Short Talk, 2013

7th IRAM 30m Summer School, Pradollano (near Granada), 2013

6th Symposium "Mathematics and Applications", Invited Lecture, Belgrade, 2015

Supernova Remnants: An Odyssey in Space after Stellar death, Poster, Chania, Crete, 2016

Students summer practice at Ondřejov Observatory, Astronomical Institute of the Academy of Sciences of the Czech Republic, Solar Physics Department (2008, 2009), Stellar Physics Department (2010, 2011, 2013)

Memberships

The American Astronomical Society - Junior Membership (2009-2013) - International Affiliate Membership (2014-)

Member of the Society of Astronomers of Serbia (2007-)

Member of the Astronomical Society Ruder Bošković (1997-)

Miscellanea

Member of the Local Organizing Committee of the 15th, 16th, 17th National Conference of Astronomers of Serbia, Belgrade, 2008, 2011, 2014

Observations of the Holmberg IX and Arp's Loop galaxies (M81 Group) with the 2m telescope of the Rozhen Observatory, Bulgaria (21-26 January 2009, 18-23 February 2009)

Lectures at Astronomy seminars of Petnica Science Center, 2008-

Preparation of the secondary school pupils for the International Astronomy Olympiad, 2008

Member of master's thesis committee for students: Jelena Čorak (Title in Serbian: "Σ–D analiza za četiri nepravilne galaksije: NGC4449, NGC4214, NGC2366, NGC1569"); Đorđe Savić (Title in Serbian: "Stabilnost prenosa mase u tesnim dvojnim sistemima sa belim patuljcima kao komponentama")

Programming skills

Programming languages: C, C++ (basic knowledge), Fortran (basic knowledge)

Data processing: Origin, IDL, MatLab (basic knowledge), IRAF, HEASoft

Web programming and text processing: HTML, L^AT_EX

Languages

Serbo-Croat (mother tongue)

English (fluent)

Russian (basic understanding, reading and writing)

Popular Science publications

D. Onić, 2005: "Tajanstvena zvezda V838 Monocerotis", Vasiona 2-3 (Serbian)

Other Interests

Music (play violin), Science fiction literature