Dušan Vukadinović [®]

— resume —

Universitätplatz 5, 8010, Graz, Austria dusan-vukadinovic@uni-graz.at

https://orcid.org/0000-0003-1971-5551

https://github.com/dvukadinovic

Education and Employment

Institute for Physics, University of Graz *postdoctoral researcher*

Graz, Austria April 2025 - present

Max Planck Institute for Solar System Research postdoctoral researcher

Göttingen, Germany February 2024 - March 2025

Max Planck Institute for Solar System Research doctoral studies

Göttingen, Germany November 2019 - January 2024

- part of the Max Planck International Research School for Solar System Science at the University of Göttingen
- thesis title: "Inferring atomic line parameters from solar spectra"
- advisors: Andreas Korpi-Lagg, Smitha Narayanamurthy, Michiel van Noort, Sami Solanki

Faculty of Mathematics, University of Belgrade

Belgrade, Serbia

MSc in astronomy and astrophysics

October 2017 - September 2018

- thesis title: "Formation and polarization in Mg I b line in the solar spectrum"
- advisors: Ivan Milić, Olga Atanacković

Faculty of Mathematics, University of Belgrade

BSc in astronomy and astrophysics

Belgrade, Serbia October 2013 - September 2017

Publications

Vukadinović D., Smitha H. N., Korpi-Lagg A., van Noort M., Castellanos Durán J. S., Solanki S. K., globin: *A spectropolarimetric inversion code for the coupled inference of atomic line parameters*, 2024. A&A, **686**, A262

https://ui.adsabs.harvard.edu/abs/2024A%26A...686A.262V/abstract

Vukadinović D., Milić I., Atanacković O., Magnetic field inference from the spectral region around the Mg I b₂ line using the weak-field approximation, 2022. A&A, **664**, A182

https://ui.adsabs.harvard.edu/abs/2022A%26A...664A.182V/abstract

Research interests

radiative transfer of polarised light non-LTE spectral line modelling spectropolarimetric inversions atomic physics numerical optimisation

Other relevant experience ____

Faculty of Mathematics, University of Belgrade

teaching assistant

Belgrade, Serbia October 2017 - October 2019

 courses: Theory of Stellar Spectra, Instruments and Techniques of Astrophysical Observations, and Astrophysical Observations

Petnica Science Center

head of the Department of Astronomy

Valjevo, Serbia

December 2016 - October 2019

Max Plank Institute for Solar System Research

student internship

Göttingen, Germany July - August 2016

* inferring photospheric magnetic field from the infrared iron lines at $1.56 \,\mu\mathrm{m}$ using only Stokes I profiles

advisor: Smitha Narayanamurthy

Petnica Science Center

teaching assistant at the Department of Astronomy

Valjevo, Serbia

February 2014 - present

Scientific presentations _

Second NLTE inversion workshop

Porto, Portugal

4th - 6th of September 2023

SOLARNET conference

Potstdam, Germany 8th - 12th of May 2023

Colloquium of the National Astronomical Observatory of Japan

virtual attendance

16th of September 2022

First NLTE inversion workshop

Stockholm, Sweden

16th - 18th of December 2019

Conferences and schools

European Solar Physics Meeting

poster presentation

Turin, Italy

9th - 13th September 2024

Hinode-15/IRIS-12 conference

poster presentation

Prague, Czech Republic 19th - 23rd of September 2022

Boulder, USA

22nd of August - 2nd of September 2022

European Solar Physics Meeting

Summer School in Spectropolarimetry

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online

poster presentation

6th - 10th September 2021

Annual Meeting of the German Astronomical Society poster presentation

online 21st - 25th of September 2020

XXXI Canary Islands Winter School of Astrophysics

Tenerife, Spain

Computational fluid dynamics in astrophysics

19th - 28th of November 2019

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Computer skills ___

Basic knowledge: C/C++, Cython, git, IDL, MatLab, Wolfram Mathematica **Intermediate knowledge:** Python3

Scientific Software: LaTeX, Maxim Dl

Last update: 11th of April 2025.