

## Nikola Milutinović

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### EDUCATION

**University of Belgrade, Belgrade, Serbia and Montenegro**  
*Theoretical and Experimental Physics Major* **1998-2003**

**The Pennsylvania State University, University Park, PA**  
*B.Sc. in Astronomy and Astrophysics, option Graduate Studies* **2003-2005**

### WORK EXPERIENCE

*The Pennsylvania State University, University Park, PA*  
**Research Scholar** **2003**  
Surveyed Weak Mg II absorbing systems in low redshift HST/STIS archive.

*The Pennsylvania State University, University Park, PA*  
**Research Assistant** **2003 – Present**  
Weak Mg II Absorbers research of high resolution optical and UV spectra  
Keck/HIRES and HST/STIS of quasars. Running and developing Cloudy  
photoionization modeling scripts.

*Astronomical observatory of Belgrade, Belgrade, Serbia and Montenegro*  
**Research Assistant** **2003**  
Theoretical research of cosmological constant through redshift evolution of Ly alpha  
forest.

*Petnica Science Center, Petnica, Serbia and Montenegro*  
**Program Assistant** **2002-2003**  
Assisted in developing and leading of astronomy seminars for university and high  
school students, including research advising, planning and supervising.

*Total Solar Eclipse '99 Expedition, Kamen Bryag, Bulgaria*  
**Research Assistant** **1999**  
Obtaining and analyzing data of polarization observations of white light corona  
during the total eclipse of '99.

### PUBLICATIONS

Nikola Milutinovic, Jie Ding, Jane Rigby, Joe Masiero, Chris Palma, and Jane Charlton, 2005, *The Nature of Weak MgII Absorbing Structures*, ApJ, submitted

Misawa T., Lynch R., Narayanan A., Milutinovic N., Kim T., and Charlton J.C., 2005, *The evolution of weak Mg II absorption lines*, Probing Galaxies through Quasar Absorption Lines, IAU Colloquium Proceedings of the International Astronomical Union 199, Cambridge: Cambridge University Press 2005., pp.451-453

Nikola Milutinovic, Katarina Kovac, Milan M. Cirkovic, 2002, *Cosmological Constant And The Ly-alpha Forest Statistics*, Proceedings from XIII National Conference Of Yugoslav Astronomers, PObeo, Belgrade

Enad Bozinovic, Nikola Milutinovic, 2000, *Polarization of White Light Corona During The Total Eclipse 1999*, Petnica papers, Science Center Petnica

Nikola Milutinovic, 1997, *Metal Active Sensitive Lines And Sun Activity*, Petnica papers, Science Center Petnica

## CONFERENCES

Nikola Milutinovic, Jane C. Charlton and Chris W. Churchill, 2005, *On the Properties of Two Strong Mg II Absorbers Towards Q0454-220*, Washington DC 207<sup>th</sup> AAS Meeting

Toru Misawa, Ryan Lynch, Anand Narayanan, Nikola Milutinovic, Tae-Kim Sun, and Jane C. Charlton., 2005, *The Evolution of Weak Mg II Absorption Lines*, IAU 199 Colloquium, Shanghai, China

Nikola Milutinovic, Jane C. Charlton, Jie Ding and Chris W. Churchill, 2004, *The Global Properties of Mg II Absorption System at Redshift One*, San Diego 205<sup>th</sup> AAS Meeting

Nikola Milutinovic, Jie Ding, Jane Rigby, Joe Masiero, Chris Palma and Jane Charlton, 2003, *Housing Weak Mg II Absorbers in Cosmic Web*, Atlanta 203<sup>rd</sup> AAS Meeting

Nikola Milutinovic, Katarina Kovac, Milan M. Cirkovic, 2002, *Cosmological Constant And The Ly-alpha Forest Statistics*, XIII National Conference Of Yugoslav Astronomers, Belgrade

Nenad Bozinovic, Nikola Milutinovic, 2000, *Polarization of White Light Corona During The Total Eclipse*, Primatijada 2000, Lepenski Vir, Yugoslavia

## PROGRAMMING SKILLS

- C++, Perl, Fortran, Turbo Pascal, Modula 2
- Matlab, MatCad, IDL
- IRAF, Zemax packages.
- Cloudy, Gadget, Enzo

## LANGUAGES

- Serbo-Croatian – native.
- English – speak fluently and read/write with high proficiency.
- Macedonian, Slovenian, Bulgarian and Russian – read, write and speak with fair competence.

## AWARDS

- Knjaz Milos Student Stipend.
- Research Foundation of Arandjelovac Township Research Grant.
- Research Foundation of Arandjelovac Township Annual Research Award.
- Primatijada 2000 Award.
- Research Assistantship (PSU) 2003-2005

## MEMBERSHIPS, AND ACTIVITIES

- American Astronomical Society (member).
- Society Astronomical Society (member).
- International Meteor Society
- PSU European Student Club (general secretary).