

“DETERMINATION OF ATOMIC PARAMETERS ON THE BASIS OF SPECTRAL LINE PROFILES”

PROJECT No.: ON 141010

2006 - 2010



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Personal Impact Factor (PIF) = 17.646
Research time: 40 months



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PIF = 8.452
Research time: 40 months



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PIF = 8.620
Research time: 40 months



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PIF = 2.225
Research time: 30 months



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PIF = 1.031
Research time: 8 months



Momčilo Gavrilov, Young Researcher
Faculty of Physics, University of Belgrade
Research time: 7 months



Miloš Burger, Young Researcher
Faculty of Physics, University of Belgrade
Research time: 4 months



Miloš Skočić, Young Researcher
Faculty of Physics, University of Belgrade
Research time: 4 months



Technical support:



Ing. Zoran Arbutina



Jelena Rakić



Ing. Dragoslav Rakić

PAPERS PUBLISHED AS ARTICLE IN JOURNALS WITH IMPACT FACTOR (IF):

- S. Djeniže, A. Srećković, S. Bukvić (IF: 0.904)
THE C I 247.8561 nm RESONANCE LINE STARK BROADENING PARAMETERS
ZEITSCHRIFT FÜR NATURFORSCHUNG A, 61a, 91 (2006)
- V. Milosavljević, V. Ellingboe, S. Djeniže (IF: 3.092)
STARK WIDTH AND SHIFT OF THE NEUTRAL ARGON SPECTRAL LINES IN 4s-4p AND 4s-4p'
TRANSITIONS
SPECTROCHIMICA ACTA, PART B, 61, 81 (2006)
- S. Djeniže, S. Bukvić, A. Srećković, Z. Nikolić (IF: 2.220)
THE FIRST MEASURED Mn II AND Mn III STARK BROADENING PARAMETERS
NEW ASTRONOMY, 11, 257 (2006)
- S. Djeniže, A. Srećković, S. Bukvić, N. Vitas (IF: 0.904)
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- S. Djeniže, A. Srećković, S. Bukvić (IF: 3.092)
THE FIRST MEASUREMENT OF THE In III STARK WIDTHS
SPECTROCHIMICA ACTA, PART B, 61, 588 (2006)
- S. Djeniže, A. Srećković, Z. Nikolić (IF: 2.024)
ON THE Sn I AND Sn II STARK BROADENING
JOURNAL OF PHYSICS B, 39, 3037 (2006)
- S. Djeniže, A. Srećković (IF: 1.711)
THE FIRST Au III STARK WIDTHS
PHYSICS LETTERS A, 367, 497 (2007)
- S. Djeniže, A. Srećković, S. Bukvić (IF: 4.259)
ROLE OF THE He I AND He II METASTABLES IN THE 2p ^2P_{1/2,3/2} B III LEVEL POPULATION
ASTRONOMY AND ASTROPHYSICS, 462, 1 (2007)
- A. Srećković, Z. Nikolić, S. Bukvić, S. Djeniže (IF: 1.972)
THE FIRST MEASUREMENT OF THE Mn I STARK WIDTHS
JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER, 105, 536 (2007)

RESULTS

Total Impact Factor (TIF) = $\sum IF = 42.723$

Personal Impact Factor (PIF) = $\sum (IF/\text{number of coauthors})$

Team Members Impact Factors (TMIF) = $\sum PIF = 37.974$

Total Research Time (TRT) = 173 months

AUTHENTICITY = $TMIF/TIF = 88.884 \%$

EFFICIENCY = $TMIF/TRT = 0.220 \text{ IF/month}$

- S. Djeniže (IF: 2.957)
THE ROLE OF THE He I AND He II METASTABLES IN THE POPULATION OF
THE Sn II Sn III AND Sn IV ION LEVELS
SPECTROCHIMICA ACTA, PART B, 62, 403 (2007)
- S. Djeniže (IF: 2.174)
STARK BROADENING IN THE Sb III SPECTRUM
PHYSICS LETTERS A, 372, 6658 (2008)
- S. Bukvić, V. Žigman, A. Srećković, S. Djeniže (IF: 1.635)
LINE BROADENING IN THE Ar III SPECTRUM
JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER, 109, 2869 (2008)
- S. Bukvić, Dj. Spasojević, V. Žigman (IF: 4.153)
ADVANCED FIT TECHNIQUE FOR ASTROPHYSICAL SPECTRA.
APPROACH INSENSITIVE TO A LARGE FRACTION OF OUTLIERS
ASTRONOMY AND ASTROPHYSICS, 477, 967 (2008)
- S. Djeniže (IF: 2.719)
ON THE STARK BROADENING IN THE Au I AND Au II SPECTRA FROM A HELIUM PLASMA
SPECTROCHIMICA ACTA, PART B, 64, 242 (2009)
- S. Bukvić, S. Djeniže, A. Srećković, Z. Nikolić (IF: 2.009)
MEASURED Cd III STARK WIDTHS
PHYSICS LETTERS A, 373, 2750 (2009)
- S. Bukvić, S. Djeniže, A. Srećković (IF: 4.179)
LINE BROADENING IN THE Si I, Si II, Si III, AND Si IV SPECTRA IN THE HELIUM PLASMA
ASTRONOMY AND ASTROPHYSICS, 508, 491 (2009)
- S. Djeniže, A. Srećković, S. Bukvić (IF: 2.719/2008)
ON THE LINE INTENSITY RATIOS OF PROMINENT Si II, Si III, AND Si IV MULTIPLETS
SPECTROCHIMICA ACTA, PART B, 65, 61 (2010)