

Astronomska Opservatorija



<http://www.aob.bg.ac.rs/>

Partner contact person : [M.S. Dimitrijevic](#)

AOB is a multidisciplinary institution covering the Atomic physics in particular theoretical determination of Stark broadening parameters of non hydrogenic atoms and ions, where together with the partners in LERMA (S. Sahal Brechet), has one of the leading position in Europe; physics and spectroscopy of Active Galactic Nuclei; stellar physics, close binary systems; solar physics; asteroids, minor bodies of the solar system; astrometry, and dynamical astronomy. AOB is an independent institution financed mainly through the projects of Ministry of Science and Technological Development of R. Serbia.

The first attempts to start the organization of a database started in 2000 and in 2008 started the project of the Serbian virtual observatory, with the objective that it enter in the future in the European virtual observatory. As a beginning, started in 2000 the work to organize Stark broadening data obtained during the more than 30 years of collaboration with LERMA (S. Sahal-Brechet). In 2005 started the collaboration with the database Stark-B at Paris observatory with the objective to obtain two mirrors, one in Belgrade and one in Paris.

Key Persons :

M.S. Dimitrijevic, Senior Researcher

Expertise: Stark broadening data, Atomic Physics, Influence of Collisional processes on stellar and laboratory spectra, Serbian coordinator of the Serbian-Bulgarian project at both Academies "Development and application of astronomical databases, member of the team of the project "Serbian Virtual Observatory.

Role in VAMDC project: Coordinator of the project (from AOB), connection to the users of Stark broadening data, testing and producing Stark broadening data. Quality assurance.

L. Ch. Popovic, Senior Researcher

Expertise: Stark broadening theory, spectra of AGN, stellar spectra, databases

Role in VAMDC project: calculation and testing of Stark broadening data, AOB mirror site. Quality assurance, Belgrade Cluster

A. Kovacevic, Docent

Expertise: Determination and testing of Stark broadening data, Databases

Role in VAMDC project: testing and calculation of Stark broadening data, AOB mirror site, Belgrade Cluster.

D. Jevremovic, Researcher

Expertise: Stellar spectroscopy, modelisation of stellar spectra, stellar atmospheres codes (PHOENIX), Leader of the project "Serbian Virtual Observatory.

Role in VAMDC project: connection to users in stellar spectra domain and stellar atmospheres code domain, connection to Serbian Virtual Observatory, AOB mirror site, Belgrade Cluster

Z. Simic, Researcher

Expertise: Determination and testing of Stark broadening data, Atomic Physics

Role in VAMDC project: testing and calculation of Stark broadening data, AOB mirror site.

E. Bon, PhD student

Expertise: Databases development and management, Spectra of Galaxies and AGN

Role in VAMDC project: Belgrade mirror site, Belgrade cluster

N. Milovanovic, PhD student

Expertise: Determination and testing of Stark broadening data, Atomic Physics, databases development and management

Role in VAMDC project: testing and calculation of Stark broadening data, AOB mirror site, Belgrade cluster.

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