

Jevremović, Zoran Simić, Edi Bon and Nenad Milovanović. Recently, in this activity is also included Veljko Vujičić.

In this lecture, we will consider VAMDC, a good example of the global collaborations and development of new facilities in e-science. Also, we will present AOB VAMDC Node and our plans for its further development.

STARK-B DATABASE AND VIRTUAL ATOMIC AND MOLECULAR DATA CENTER – VAMDC

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The database STARK-B is a collaborative project between Laboratoire d'Etude du Rayonnement et de la matière en Astrophysique of the Observatoire de Paris-Meudon and the Astronomical Observatory of Belgrade. For the moment STARK-B contains Stark line broadening parameters (widths and shifts) obtained within the impact approximation using the semiclassical perturbation approach and the impact approximation. It is devoted for modelling and spectroscopic diagnostics of stellar atmospheres and envelopes, as well as for laboratory plasmas, laser equipment, inertial fusion plasma and technological plasmas.

STARK-B database is a part of the core of European Virtual Atomic and Molecular Data Center (<http://www.vamdc.eu>, VAMDC) e-infrastructure, one of the databases upon which it is based.

In this review, the STARK-B database will be presented as well as its connection with VAMDC.

SERBIAN VIRTUAL OBSERVATORY, VIRTUAL ATOMIC AND MOLECULAR DATA CENTER – VAMDC AND ASTROINFORMATICS

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SerVO - Serbian virtual observatory (<http://www.servo.aob.rs/~darko>) started as a project whose funding was approved through a grant TR13022 from Ministry of Science and Technological Development of Republic of Serbia, with duration of 33 months from April 1st 2008 till December 31st 2010. From the 1st January of 2011, SerVO is financed by the Ministry of Education and Science of Republic of Serbia through the project III44002 "Astroinformatics and virtual observatories". After establishing SerVO and