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The Synthetic spectra modeling application SYNTPSEC under GRIDCOM interface

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

BalticGrid-II
LitGrid
GridTechno

Special requirements other than the set up mentioned in the CfA text.

No special requirements.

Abstract

We present astrophysical spectra modeling possibilities under BalticGrid-II infrastructure. The synthetic spectra calculations require data- and compute-intensive application running on the testbed of the GRID infrastructure. The user friendly multi job application SYNTPSEC is a good example of the product which brings the new quality to the research in astrophysics and allows a common (virtual) work of the physically spread scientific group.

The main aim of scientific stellar spectra modeling is to calculate normalized to the continuum stellar spectrum that is applied for determinations of e.g. chemical compositions, effective temperatures and surface gravities of stars. This is very important for the analysis of large quantities of spectra coming from many ground observatories and essential for the preparation of infrastructures and procedures for processing of data, which will be produced by the European Space Agency's GAIA space observatory (to be launched in 2011).

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