

## **GRID infrastructure for astrophysical applications in Lithuania**

Abstract:

We present the GRID infrastructure development in Lithuania, defining the accumulation of computational resources for astrophysical research. Lithuania is the host of several GRID projects and programs. The BalticGrid-II is the second phase of BalticGrid project which joins together five countries around Baltic Sea and CERN. The LitGrid, that unites all main research institutions in Lithuania.

We present the SYNTSPEC as possible application for A&A cluster and EGI. It is the example of successful gridified multi job tool for stellar spectra analysis which brings the new quality to the research in astrophysics. This application is run on several user environments: MigratingDesktop and GridCom, that allow a common (virtual) work of the physically spread scientific group. Keeping in mind the near start of the GAIA mission, the future development of the software and resources for astrophysical calculations is planed, with a focus on making it more autonomous and time saving for scientists.

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

BalticGrid-II

LitGrid

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

No special requirements

URL:

<http://sig.balticgrid.org/SIGs/stellar-spectra/>

<http://www.balticgrid.org>

<http://balticgrid.itpa.lt>

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