

Introduction to session works

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General view

- A few days ago the first SuperB distributed production have been completed. The production work-flow has been completely based on Grid services
- Such a results was obtained since Grid infrastructure is a consolidate reality
- Currently Grid infrastructure supplies a robust set of services used in HEP community
- Distributed Computing (Grid) evolution during the SuperB time life is a key subject for the definition of the Computing Model for the SuperB Computing TDR

Session contents

- **Distributed Computing for HEP - present and future**

Claudio Grandi (INFN-Bologna)

SuperB needs a deep knowledge of LHC and in general HEP experiments approach to Grid services/infrastructure/work-flow etc. How the experiments imagine the Grid evolution.

- **Middleware development in the EGI era**

Francesco Giacomini (INFN - CNAF)

What will be the Grid shape SuperB will interact with?

The presentation includes the guide lines and the bird's-eye view of future European Grid.

- **Multithread and MPI usage in GRID**

Roberto Alfieri (Parma University & INFN)

The status of the support for parallel programming in Grid infrastructure is presented. The talk describes the status of arts of works in Multithread and MPI technologies integration in Grid world.

- **Grid/Cloud computing evolution**

Davide Salomoni (INFN - CNAF)

Current evolution trends for distributed computing, Grid and Cloud plans of interoperability.

Goals and outcome of the session

- Collecting Information about the future of Grid infrastructure
- Identify SuperB Distributed Computing requirements
- Check the possibility the two things fits