



Contribution ID: 14

Type: **Session**

Fusion Activities in the Grid, and related projects.

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Agenda (Tentative):

General revision of state of the art in relation with fusion applications.

Advances in fusion applications.

Advances in data management in fusion.

Workflows with fusion applications.

Building a Fusion-SSC

Speakers: Francisco Castejón, Igor Semenov, Marcin Plociennik, Antonio Gómez, José Vázquez Poletti. Others (TBD)

Outcomes: Mayor revision of the state of art of applications and data management in fusion. Works on Fusion-SSC.

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

Projects: EGEE-III, EUFORIA, EELA-II, Ibercivis.

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

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Abstract

The usage of grid infrastructures for fusion research has provided interesting results that open themselves new lines of research. There is an important number of applications running in the grid with different schemes and structures, which has allowed to gain experience in porting different types of codes. For instance, we can find serial applications, PIC codes and optimisation procedures based upon genetic algorithms. The use of the grid for data management is totally new in fusion and the results of this pilot experience will be shown in this session. Finally, some experiment of complex work-flow between applications running in different architectures will be presented. The session will be used to coordinate the activities to build a Fusion-SSC.

Please indicate your preferred day to give a demo.

4 hrs

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Track Classification: End Users (Applications)