



Contribution ID: 133

Type: **Demonstration**

## The Worldwide LHC Computing Grid

### **Please indicate your preferred day to give a demo.**

The proposal consists actually of various demos that would run during the four days of the conference. One possibility would be to dedicate each day to focus on one of the four LHC experiments.

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The plan is to place these demos in PIC's booth. The focus will be on showing the WLCG in production at the Tier sites from Spain and Portugal, but it is open to more general views if needed.

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

WLCG, ALICE, ATLAS, CMS, LHCb

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

none

### **Abstract**

The LHC, the most powerful particle accelerator in the world, starts in 2009 at CERN. Inside its tunnel, protons will be accelerated and smashed head on, recreating the conditions just after the Big Bang.

The four detectors recording the collision products will generate an unprecedented amount of data, accumulating over 15 Petabytes every year. To process, analyse and store this data, the largest scientific Grid in the world has been built: the Worldwide LHC Computing Grid. It builds on top of major research Grid infrastructures such as EGEE and OSG, combining the computing resources of more than 140 computing centres in 34 countries.

The activity and operations of the WLCG for the four LHC experiments will be presented in a graphical way, demonstrating how each experiment computing model workflows are implemented on top of the infrastructure.

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