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## **DIRAC framework evaluation for the Fermi-LAT, CTA and LSST experiments**

*Monday, 14 October 2013 15:00 (45 minutes)*

DIRAC (Distributed Infrastructure with Remote Agent Control) is a general framework for the management of tasks over distributed heterogeneous computing environments. It has been originally developed to support the production activities of the LHCb (Large Hadron Collider Beauty) experiment and today is extensively used by several particle physics and biology communities. Current (Fermi-LAT, Fermi-Large Area Telescope) and planned (CTA, Cherenkov Telescope Array, LSST, Large Synoptic Survey Telescope) with very large processing and storage needs, are currently investigating the usability of DIRAC in this context. Each of these use cases has some peculiarities: Fermi-LAT will interface DIRAC to its own workflow system to allow the access to the grid resources; CTA is using DIRAC as workflow management system for the Monte Carlo production on the grid; LSST is exploring DIRAC to access to heterogeneous resources, like local clusters, grid and cloud. We describe the prototype effort that we lead toward deploying a DIRAC solution for some aspects of Fermi-LAT, CTA, and LSST needs.

### **Summary**

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