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Tutorial: DIRAC Systems presentation

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DIRAC (Distributed Infrastructure with Remote Agent Control) is a general framework for the management of tasks over distributed heterogeneous computing infrastructures. 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. The main DIRAC components are the Workload and Data management Systems, together with a workflow engine, called 'Transformation System'. In this talk, we will present the main functionalities of DIRAC for the workload and workflow management. Finally, we will give a demonstration of how DIRAC is used for the Monte Carlo production and analysis of CTA (Cherenkov Telescope Array).

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