Title : Experiences from the migration of the MAGIC Datacenter to a Grid infrastructure

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Abstract:
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The MAGIC (Major Atmospheric Gamma-ray Imaging Cherenkov) telescopes, run by an international collaboration of institutes from 9 different countries, is a two 17-meter Cherenkov telescope system located on La Palma (Canary Islands) dedicated to the study of the universe in very high energy gamma-rays. The estimated data volume generated by MAGIC for the next years is 300 TB/year. The main computing requirements of such an experiment comes from data calibration, reduction and storage and from the generation of Monte Carlo simulations.

In the last months the MAGIC collaboration has been moving from a computing model based on local computer farms to a Grid based model. This effort is leaded by the data center hosted at Port d'Informació Científica (PIC) in Barcelona and funded by Institut de Física d'Altes Energies (IFAE), Universitat Autònoma de Barcelona (UAB), Universidad Complutense de Madrid (UCM) and Instituto de Astronomia de Andalucía (IAA). Here we present the recent progress in the adoption of the Grid infrastructure in MAGIC using the current resources of the MAGIC VO on EGEE.