



Building Blocks: more realistic examples

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Goal of practical

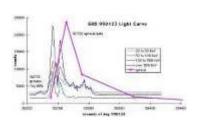
- We've separately used:
 - AuthZ and AuthN (proxies, VOMS)
 - Simple Workload Management (Resource Broker)
 - Run hostname
 - Send and run an executable
 - Information System (IS)
 - Data management (DM)
- Its time to put these together!
- The goal of this practical is to show some building blocks that can be used in realistic applications on a grid

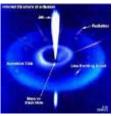


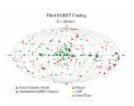


- Ground based Air Cerenkov Telescope 17 m diameter
- Physics Goals:
 - Origin of VHE Gamma rays
 - Active Galactic Nuclei
 - Supernova Remnants
 - Unidentified EGRET sources
 - Gamma Ray Burst
- MAGIC II will come 2007
- Grid added value
 - Enable "(e-)scientific" collaboration between partners
 - Enable the cooperation between different experiments
 - Enable the participation on Virtual Observatories







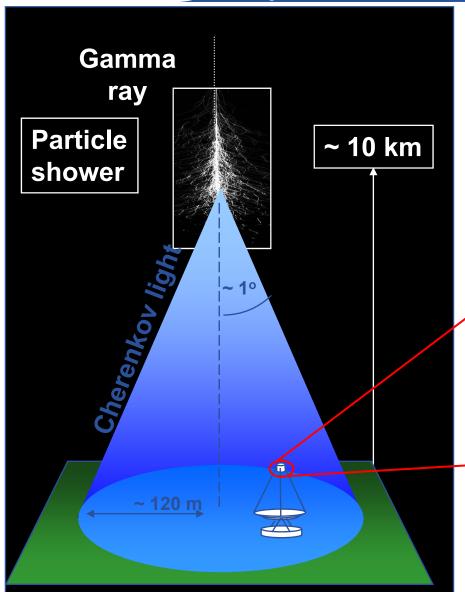




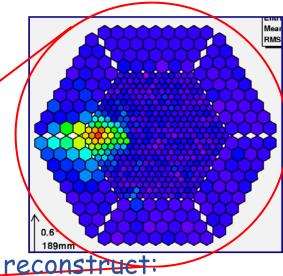


Ground based γ-ray astronomy

Enabling Grids for E-sciencE



Cherenkov light Image of particle shower in telescope camera



arrival direction, energy reject hadron background Requires Monte-Carlo analysis: writes data to a SE



Practical overview: 4 examples

Enabling Grids for E-science

- 1. Run a more realistic job, an example provided by the MAGIC project
 - Sends script to CE
 - Sends executable in sand-box note need to "chmod +x"
 - Writes file to SE
- 2. Run a job "close" to SE with required input /output data
 - simple script to copy file from SE to Worker Node
- 3. Script to run multiple jobs
 - Create JDL files in the script
 - Submit mulitple jobs to Resource Broker
- 4. How to control access to files so collaborators can share data
- The wiki page leads you through submitting all these, then invites you to open a second window and to explore what is happening while the jobs run.
- READ INSTRUCTIONS CAREFULLY you need to be alert and to understand what is happening for this to work