## Resource sharing with Condor

### • What is Condor?

 Condor is a software system that creates a High-Throughput Computing

(HTC) environment. It is a job and resource Management system.

### Objective

- Make
- а

n optimal use of the idle CPU time of GEPI desktop workstations

#### • Components

- Software Condor (free)
- At least ONE machine dedicated as the Central Manager
- N-execution and submit workstations
- Result

White paper "How to implement the GEPI's Condor Pool."

### Resource sharing with Condor

#### Maintenance

• One administrator for monitoring the queue periodically and installing the software in each workstation

### Grid relationship

• **Condor-G** allows users to send jobs to grid nodes which have Globus toolkit installed.

## **GALA** Project



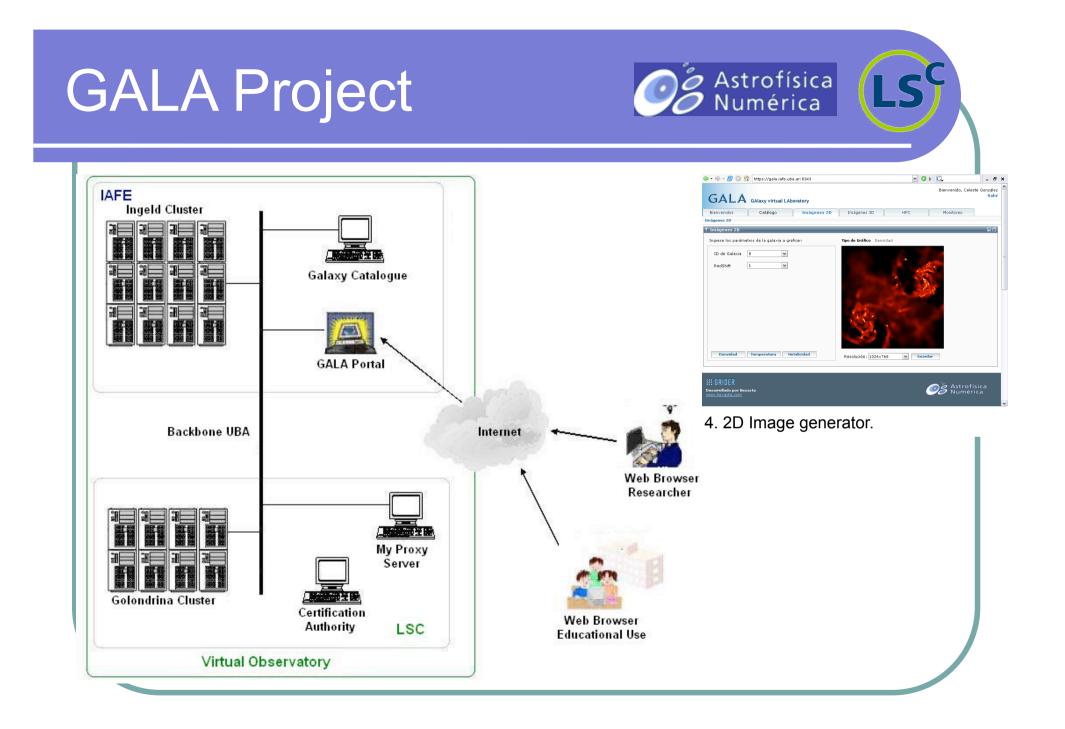
# LSC

### **GAlaxy virtual LAboratory**

**Objective:** The **Virtual Observatory of Synthetic Galaxies** will be for the researchers an important tool to improve their work. They would explore galaxies properties and their history formation beneath the current cosmological paradigm.

### **GALA** consists of:

- UBA Certification Authority
- Galaxy formation simulation toolkit (P-Gadget) and result analyzer
- High performance clusters (Ingeld y Golondrina)
- Synthetic galaxy catalogue
- Tools for image (2D/3D) prosessing.



### **Resource sharing**



#### Available hardware:

- Speedy González Cluster (16 nodes Pentium and Athlon) for the students, LSC.
- Golondrina Cluster (4 nodes Opteron 64 dualcore, 2 GB RAM), for researching activities, LSC.
- Ingeld Cluster (10 nodes Pentium 4, 1.5 GHz, 1 GB RAM), IAFE.
- Future cluster, 58 nodes Intel Xeon dual dualcore (like 232 processors performance), interconected by a high speed network and low latency Infiniband, DC (Computing Department).