

# Group 1 Presentation

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# Cross-matching Astronomical Catalogues

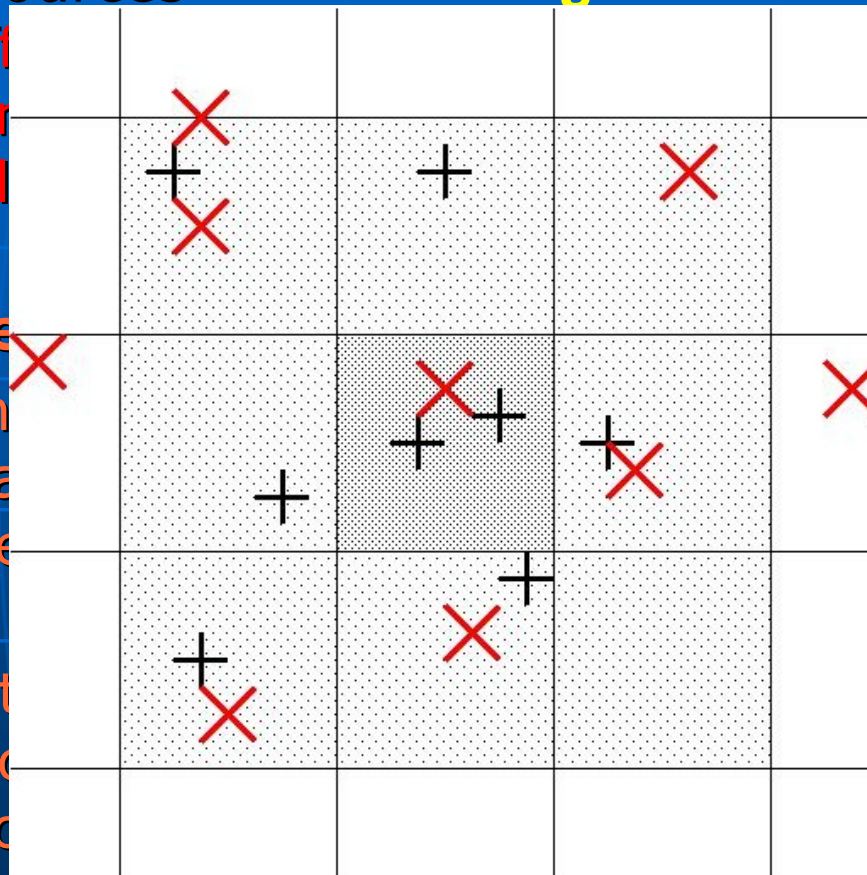
- **Cross Matching (CM)** of astronomical sources

detected at different wavelengths and in different catalogues (images)

- **Why need the**

- CE : Splitting various parameters to reduce the execution time
- SE : The catalogues are considered of billions of sources
- GDSE / OGSA-DAI : The catalogs are stored in different relational databases

– At present the work is done using ad hoc written program



machine

of  $5 \times 10^{-4}$  of the total  
2 hours of CPU time  
z, this translate to  
of CPU

ometric mission

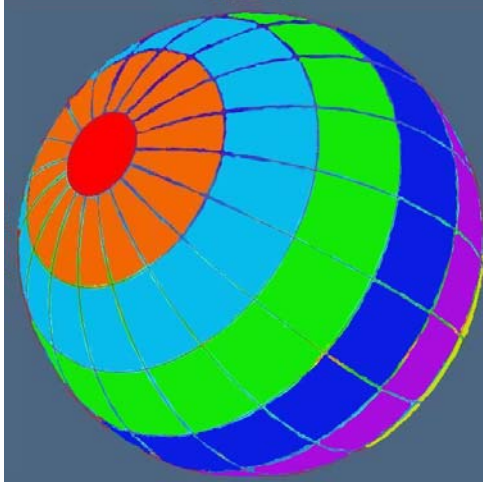
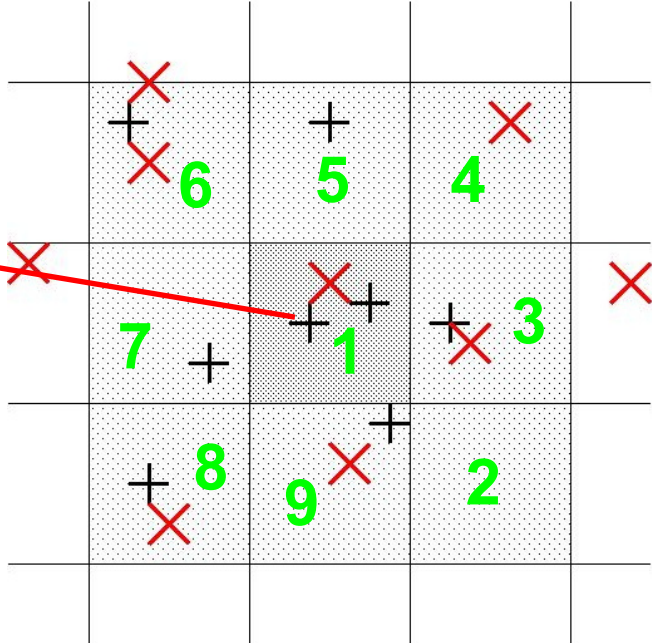
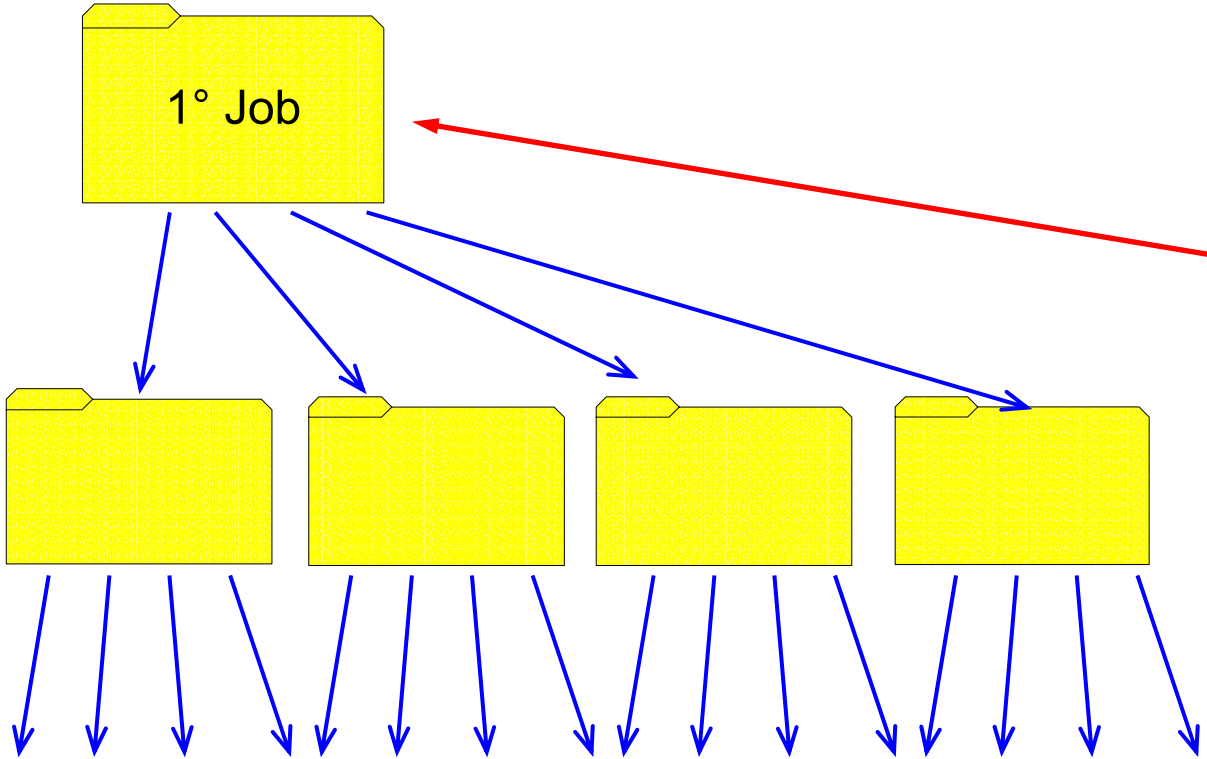
S & RATS survey  
of extrasolar planets

reduction for the  
instruments of second generation  
mounted on VLT at ESO

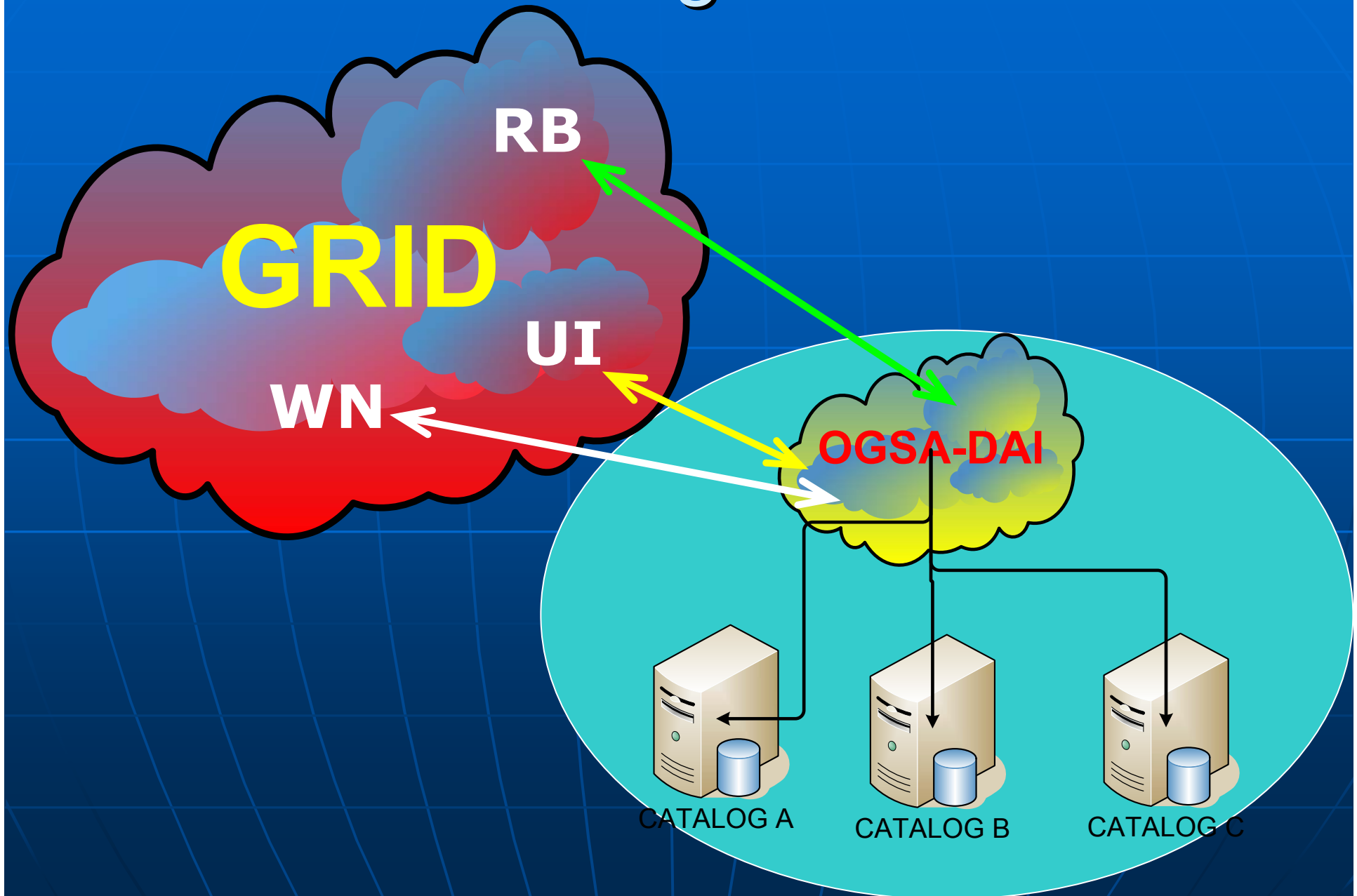
# Grid Technology Solution

- **GLite/MW**
  - High-Throughput / Access more CPUs
  - **DAG-Man**
    - Dependencies of Jobs (Pixels)
  - **Condor**
    - Scheduling Jobs
- **GDSE / OGSA-DAI**
  - Accessing astronomical databases
- **JAM / Webservices**
  - Job Monitoring Application

# DAG-man

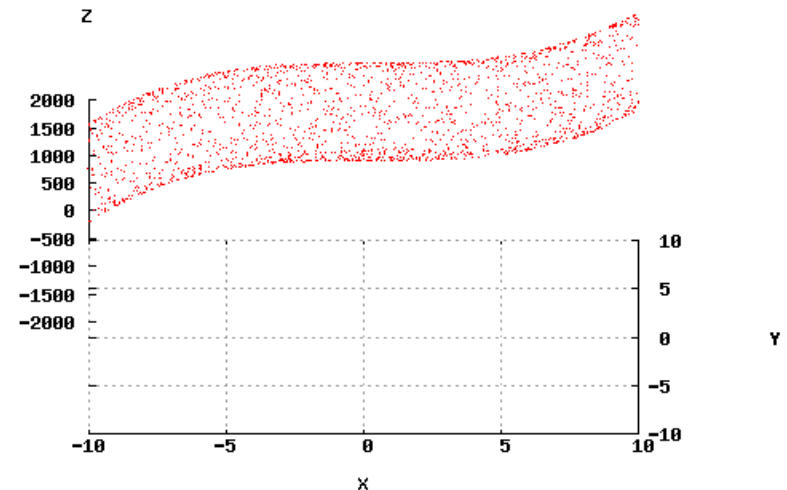


# Accessing Databases



# Prog. Exercise – Status 1/2

- Java Service -> Web Service ✓
- GT4 (WSRF) Random Case Impl. ✓
  - Gilda Submission (security: no certificates installed)
- OGSA-DAI ✓
- Pillar Search ✓
  - Region
  - Pillar
  - Plaque
  - Text





# Contribution of Group Members

- All participants in our group contributed equally to the various tasks
  - Java/Detection/Grid-Scheduling
  - Web and Grid Services
  - OGSA-DAI
  - Presentation



# Feedback to GS

- Not enough 'free' time e.g. for progressive exercise ,to absorb material, and for life outside School.
- Make Java ex. available before School start.
- Short notice changes, some poor coordination and 'goal' shifting.
- Last minute implementation (eg Web Service exercise, GT4).
- No hard copies of material. Presentations not on-line ahead of time.
- Some leading experts did not present as advertised (Foster, De Roure).
- Some poor presentations (SOAP, XML, GT4 (low content)).
- Reluctance to accept and accommodate feedback in first week.

# Feedback to GS

- Hands on intro to variety of Grid and WS middleware & technologies.
- Presentations by leading Grid developers and users. Some excellent.
- Interesting progressive ex. culminating in transition to Grid Services.
- Working and collaborating with a diverse yet cohesive group.
- Considerable and impressive effort in tutorial material preparation.



The knowledge

GGFISSGCO5

“... und lass ihn fliegen!”

*“... and set it free!”*



