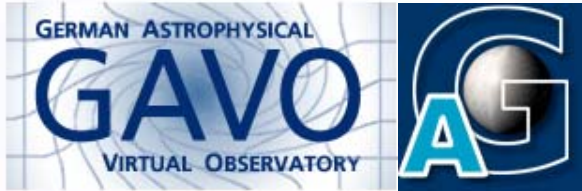


# Introducing AstroGrid-D

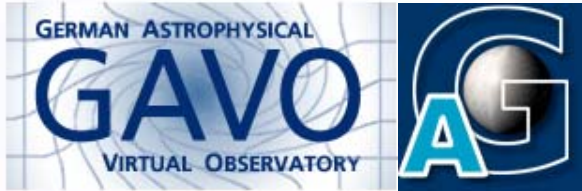
- BMBF-sponsored Grid-Project to establish the infrastructure for the German Astrophysical Community
- Part of the German D-Grid initiative
- Members: AIP, ZAH, AEI, TUM, ZIB
- **Middleware: GT4.0x**
- ~900 nodes in clusters, ~100TB storage space, soon also a 800TB “GrayWulf” type storage server, ...





# AstroGrid-D and EGI

- AstroGrid-D likely to be continued by different funding sources (“WissGrid”, BMBF)
- interest in international collaboration
- Problems:
  - have sufficient resources
  - have numerous potential use cases
  - need manpower
  - middleware development is no focus (any more), so we see the EGI-supported middlewares (i.e. non-GT4) as problematic



# Potential Projects

- Gateway between AGD and EGEE (GT4 -> glite) obviously needed (available: GAT-interface)
- “atomic” task farming
- offering Astronomical resources (e. g. SDSS) via OGSA-DAI etc,
- offer special hardware (GRAPE)
- implement VO Space

## Architectural strategy:

- VObs “on top”, i. e. grid as mostly invisible backend behind the VObs service
- Exception: Intensive work in close collaboration (e.g. cosmology)