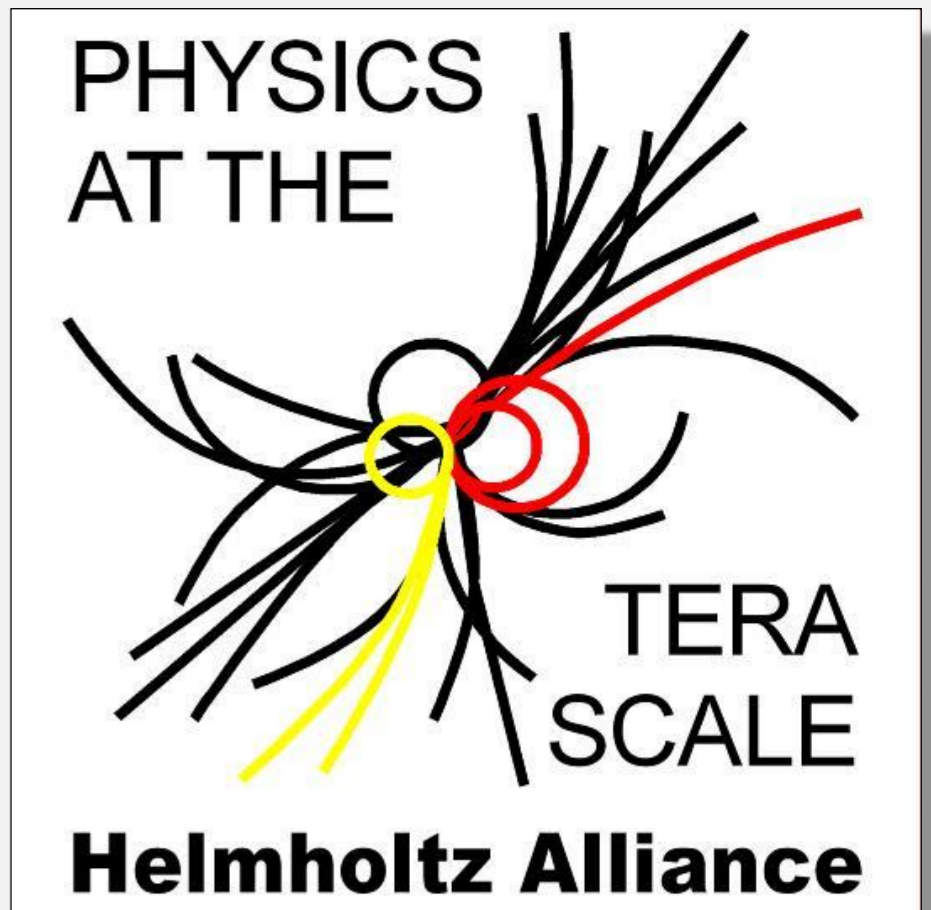


# HGF Terascale Storage Support Group

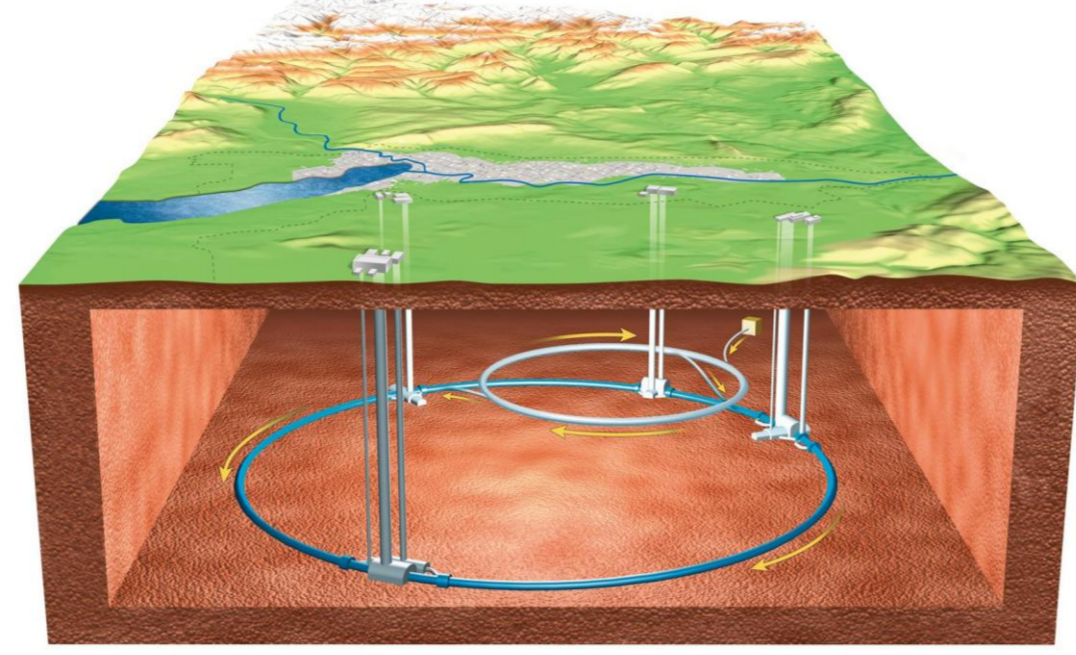
C. Jung (KIT), C. Mitterer (LMU), O. Tsigenov (RWTH)



LHC will produce  $O(10 \text{ PB})$  of data per year

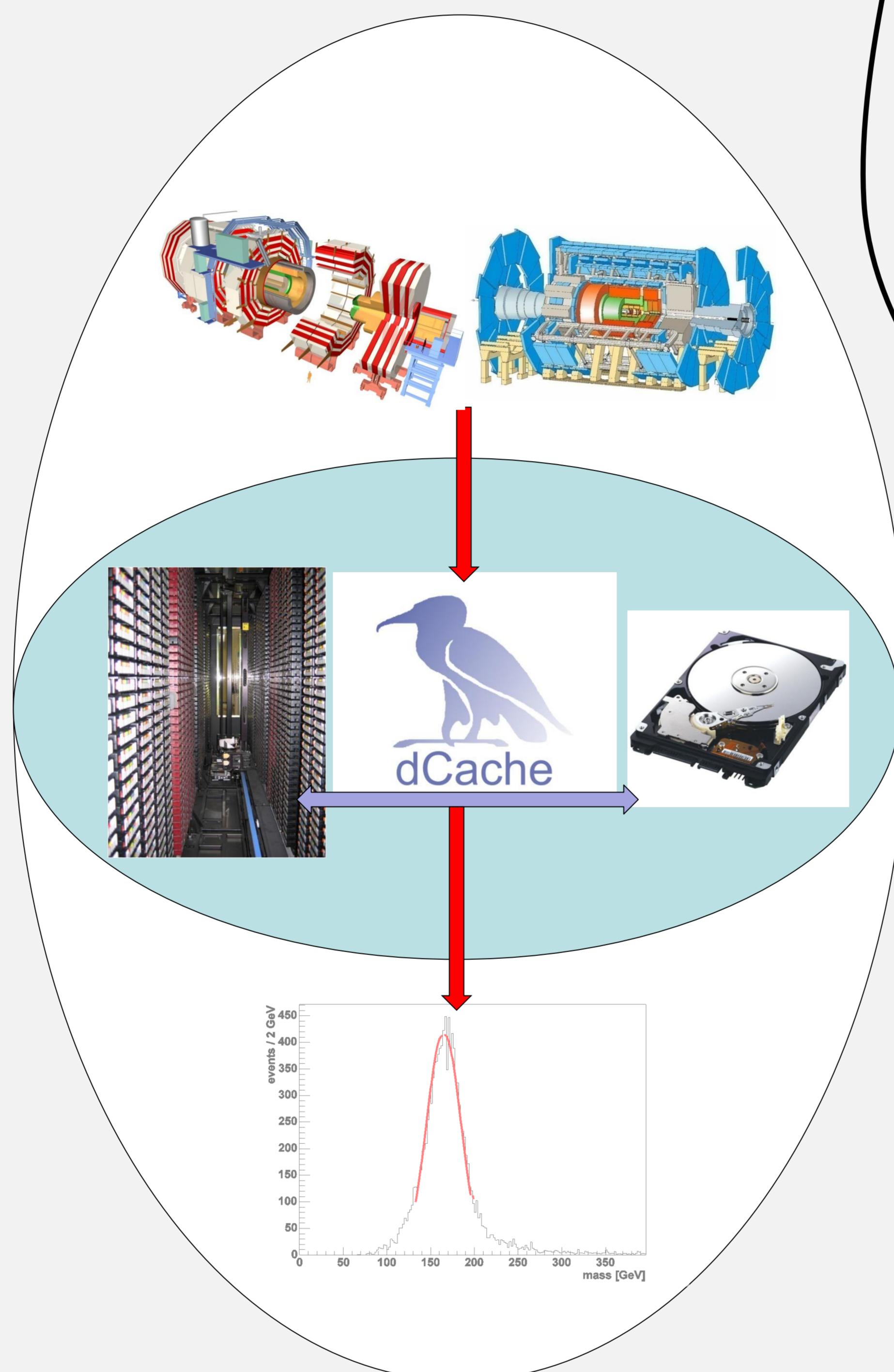
Challenges:

- Efficient distribution of data
- Fast processing of data
- Grid sites differ in size, manpower and hardware  
-> need an 'intelligent storage middleware'



dCache is a project with large German contribution

- capable of distributing data among heterogenous servers
- supporting several access protocols
- using a single virtual file system tree
- supporting a tape backend



**The support challenge:**

- Inhomogeneous group of grid sites
- Local admins with different backgrounds and in different experiments (with specific needs)
- dCache under ongoing further development

One new HGF funded position for release validation at DESY

HGF Storage Support Group

- Funded members at RWTH (CMS), LMU (ATLAS) and KIT (Tier-1)
- Close collaboration with dCache developers and D-Grid Initiative

**Goal: Supporting dCache at Tier-2's and Tier-3's within HGF alliance**

Support means for HGF storage

- Group incorporated in dCache support within Global Grid User Support
- mailing list [german-support@dcache.org](mailto:german-support@dcache.org)
- postings in relevant dCache forums
- providing tools and add-ons
- offering incident management (if needed on site)
- **workshops and hands-on tutorials**
  - **beginners' course at GridKa School each fall**
  - **advanced course each spring**
- compiling documentation for specific topics
- personal contacts (e-mails, phone calls)



dCache hands-on course covers topics, e.g. installation, storage protocols and trouble shooting

