The GridKa WLCG Tier-1 Center

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GridKa - A Cornerstone of WLCG
- Among the largest and best performing WLCG centers

Batch Farm
- 950 worker nodes
- 340 kHS06
- HTCondor

Network
- GridKa – CERN 120Gbit/s (end of 2018)
- GridKa – LHCOPN/LHCONE/GPN 100Gbit/s
- Internal backbone 80-400Gbit/s

Online Storage
- 27PB software defined storage (IBM Spectrum Scale)
- dCache for ATLAS, CMS, LHCb, Belle II
- xrootd for ALICE

Talk by J. Sundermann (Wed T4)

Offline Storage
- 43PB on tape
- Oracle SL8500
- 17/24 T10000C/D drives

Poster by D. Lobontu
Talk by D. Ressmann (Mon T4)

Towards HL-LHC
- Demonstrated scalability of Compute, Storage and Network
- R&D at GridKa is part of the evolution & revolution required for HL-LHC
- 20% resource increase per year expected until Run4
- GridKa will be a cornerstone of WLCG also in the HL-LHC era