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The Swiss ATLAS Grid

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Since 2005 the Swiss ATLAS Grid is in production. It comprises four clusters at one Tier 2 and two Tier 3 sites. About 800 heterogenous cores and 60 TB disk space are connected by a dark fibre network operated at 10 Giga bit per second. Three different operating systems are deployed. The Tier 2 cluster runs both LCG and NorduGrid middleware (ARC) while the Tier 3 clusters run only the latter. As local resource management systems both OpenPBS/Torque and Sun Grid Engine are used. In 2006 about 200 000 CPU hours of central ATLAS production were run on a smaller version of this infrastructure. Local users ran about 60 000 CPU hours for ATLAS physics studies. As end user tools ARC clients, ATLAS DQ2 software, ATLAS Ganga and a new graphical user interface are employed. With emphasis on the heterogenous solutions we report on the current and future infrastructure and usage of this part of the ATLAS grid.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

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