Contribution ID: **19**   Type: **not specified**

Swiss HPC Tier-2 Computing @ CSCS

Friday, 14 June 2019 11:00 (30 minutes)

For the past 10 years, CSCS has been running compute capability in the WLCG Tier-2 for ATLAS, CMS and LHCb on standard commodity hardware (a cluster named Phoenix). Three years ago, CSCS began providing this service on the flagship High Performance Computing (HPC) system, Piz Daint (a Cray XC40/50 system). Piz Daint is a world-class HPC system with over 1800 dual-processor multicore nodes and more than 5700 hybrid compute nodes with GPU accelerators. Piz Daint currently holds the 5th position on the Top500 List and is the most powerful HPC system in Europe.

In preparation for future challenges that the HL-LHC will impose on the computing sites, CSCS is in the process of decommissioning the Phoenix cluster and fully consolidating the Tier-2 compute load onto Piz Daint.

In this presentation, the critical milestones to achieve on the road to a successful migration to Piz Daint will be explained.

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