

Developing the WLCG Tier-1 center GridKa as topical center in a multidisciplinary research environment

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The WLCG Tier-1 center GridKa is developed and operated by the Steinbuch Centre for Computing (SCC) at the Karlsruhe Institute of Technology (KIT). It was the origin of further Big Data research activities and infrastructures at SCC, e.g. the Large Scale Data Facility (LSDF), providing petabyte scale data storage for various non-HEP research communities.

Several ideas and plans exist to address the increasing demand for large scale data storage and data management services

and computing resources by more and more science communities within Germany and Europe, e.g. the the Helmholtz Data Federation (HDF) or the European Open Science Cloud (EOSC).

In the era of LHC run 3 and Belle-II, high energy physics will produce even more data than in the past years, requiring improvements of the computing and data infrastructures as well as computing models.

We present our plans to further develop GridKa

as topical center within the multidisciplinary research environments at KIT, in Germany and Europe and in the light of increasing requirements and advanced computing models to provide the best possible services to high energy physics.

Primary Keyword (Mandatory)

Computing facilities

Secondary Keyword (Optional)

Tertiary Keyword (Optional)

Authors: HEISS, Andreas (KIT - Karlsruhe Institute of Technology (DE)); PETZOLD, Andreas (KIT - Karlsruhe Institute of Technology (DE))

Presenter: HEISS, Andreas (KIT - Karlsruhe Institute of Technology (DE))

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