

# **The German HEP Community Grid (HEP CG)**

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Funded by the Ministry for Education and Research, the D-Grid initiative, an Integration Project and six Community Grid projects (from astronomy, climate research, high energy physics, engineering, medical research and humanities) started to establish an infrastructure for e-science in the German scientific community.

The paper reports on some highlights of the work of the three work packages of the HEP CG consortia: ten institutes from HEP including theoretical particle physics and computer science.

The main topics of the data management work package are the development of an advanced scalable storage element, cpu- and data-coscheduling, and an extendable metadata catalogue for lattice QCD. The focus of the user support and monitoring group is the development of a job information system, an expert-system to classify failures and on interactive steering of jobs. The experiments ATLAS and ALICE are used as showcase for future distributed analysis environments in the third work package.