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The evolution of the HPC facility at JSC

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The Jülich Supercomputing Centre (JSC) operates a large-scale network-, data- and compute-infrastructure for scientific research covering a broad spectrum of use cases from scalability-focused large-scale simulations to community-specific services with high-throughput requirements. In this talk we will discuss the design of JSC's facility addressing such different use cases though a mixture of collocated and dedicated resources. Based on currently on-ongoing, exemplary projects with different scientific communities, we will discuss JSC's future systems strategy in view of the on-going exascale race, the need for novel storage management capabilities and upcoming requirements for support of new system usage patterns.

About the Speaker
Dorian Krause leads the High Performance Systems division at the Jülich Supercomputing Centre at Forschungszentrum Jülich. His group is responsible for the operation of the two major supercomputers JURECA and JUWELS and the primary storage infrastructure JUST as well as the co-design and implementation of new compute and data services based on these systems.

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