

# Developing a Sustainable and FAIR HPC Sparse Linear Algebra Framework

*Mittwoch, 26. Oktober 2022 17:00 (45 Minuten)*

With a strong reliance on research software projects in both industry and for scientific simulations, research software sustainability is increasingly becoming a major point of contention. A necessary but nonsufficient aspect of software sustainability is Continuous Integration and Benchmarking (CI/CB/Cx). In addition, software flexibility to support newer HPC hardware as well as modern, flexible interface are also necessary for sustainability. Finally, a mathematical and HPC software's testing strategies can be complex due to the different hardware behavior, and the need to ensure numerical accuracy. In this talk, we will showcase the design of the Ginkgo sparse linear algebra framework which features good software design techniques, was designed with testability, benchmarking as well as Cx practices as centerpieces.

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**Sitzung Einordnung:** Invited Talks