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## **ROCK-IT –a demonstrator for automation and remote-access to synchrotron beamlines**

*Tuesday, 21 May 2024 16:00 (2 hours)*

ROCK-IT aims to develop a demonstrator for automation and remote-access to beamlines of synchrotron radiation facilities. The four participating Helmholtz centers DESY, HZB, HZDR, and KIT have identified catalysis operando experiments as a pilot development. So far, no automation exists for such experiments and since the optimization of catalysts requires to evaluate a large parameter space of experimental and material conditions, it is a perfect demonstrator case for a prototype. For the research community, a suitable automation of such experiments will allow for a more effective development workflow. For KIT's catalyze beamline CAT at the Karlsruhe Research Accelerator KARA a prototype of the setup is currently in development.

### **Footnotes**

### **Funding Agency**

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### **Paper preparation format**

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### **Region represented**

Europe

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