



DMA – ST1: Neutron Sciences

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Courtesy: A. Zaft, DAPHNE consortium, C. Felder

Neutron Sciences and DMA

Helmholtz: FZJ at MLZ, ESS, ILL





Neutron Sciences and DMA



POF Proposal:

Operation of the existing facilities at the highest international level, also addressing new challenges such as further automated experiments and dealing with increased data rates due to improved detection schemes, the latter will be addressed in close cooperation with the topic DMA of the program MT

Challenges and goals

Higher data rates and volumes (new detectors, imaging, ESS)

FAIR data requested → reusability, merging/sharing data between users and facilities

ML-ready data (machine readable)

POF IV: "Obtain the ultimate possible information from multidimensional data sets" (MML: RF-Matter p.21)

















Research Community Impacts on Global Challenges

Impact extends far beyond the physics or materials science community





Unique instrument control at MLZ: nicos as a joint software



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Concept Data@MLZ:



HMC funded SECoP, at MLZ in close cooperation with DAPHNE4NFDI



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Many Thanks!