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SALSA Virtual A virtual neutron scattering instrument

Friday, 14 June 2024 15:30 (1h 40m)

In this work, we present a digital twin of the stress imaging neutron scattering instrument SALSA. This digital twin aims to correctly predict SALSAs neutron beam characteristics at sample position. This twin was made, by implementing a bent perfect crystal monochromator in the software package McStas, and then used McStas to recreate the instrument setup of SALSA. we then performed experiments to validate the instrument setup, and found that the digital twin correctly recreates the general tendencies of the experiments.

Field of study

Physics of Complex Systems

Supervisor

Kim Lefmann

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Session Classification: Poster session: Enjoy the posters!