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New Perspectives for Neutron Imaging and Diffraction through Advanced Event-Mode Data Acquisition

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Recently developed event-driven detectors are capable of registering spots of light induced by neutron interactions in scintillators. Reconstructing the center-of-mass of the individual interactions, it is possible to significantly enhance the spatiotemporal resolution of recorded radiographs. Utilizing this principle, we present a novel detector concept capable of Time-of-Flight imaging with adjustable field-of-view including n/g discrimination via analysis of the event shape in space and time.

Primary author: LOSKO, Adrian (Technische Universität München, Forschungs-Neutronenquelle MLZ (FRMII))

Co-authors: WOLFERTZ, Alexander (TUM FRM2); SCHULZ, Michael

Presenter: LOSKO, Adrian (Technische Universität München, Forschungs-Neutronenquelle MLZ (FRMII))

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