## LLB / MLZ Workshop 2024 in Herrsching



Contribution ID: 26 Type: Invited Talk

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

Monday, May 27, 2024 9:25 AM (25 minutes)

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.

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