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R3B-NeuLAND - Detection of Fast Neutrons

Thursday, 6 December 2018 17:30 (30 minutes)

The high-resolution, large-acceptance neutron time-of-flight spectrometer NeuLAND is the new neutron detector being developed for the R3B setup (Reactions with Relativistic Radioactive Beams) at FAIR. NeuLAND is dedicated to the detection of high-energy neutrons up to 1GeV. In this talk, I will report on the design concept and the status of construction. An overview over the experimental campaign carried out with the NeuLAND demonstrator at the SAMURAI setup at RIKEN will be accompanied by an outlook on the R3B phase0 program at GSI.

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