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Type: **Experiment**

Free neutron decay experiment PERC

Thursday 22 February 2024 18:35 (20 minutes)

The Neutron and Quantum Physics Group at TU Wien pursues various research approaches in the field of particles and cosmology. In this talk, I will present a new neutron decay facility PERC; a precise determination of the weak axial vector coupling g_A from a measurement of the β -asymmetry in the decay of free neutrons and the relationship to the unitarity of the CKM matrix. New symmetry tests of various kinds are coming within reach with the neutron decay facility PERC at Munich research reactor FRM2 or at ESS, the European Spallation Source.

Author: SAAVEDRA GARCÍA, Alberto José (Technische Universität Wien - Atominstitut)

Co-authors: ABELE, Hartmut; PRADLER, Irina (Tu Wien - ATI)

Presenter: SAAVEDRA GARCÍA, Alberto José (Technische Universität Wien - Atominstitut)

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