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Abstract for an Invited Paper for the SES07 Meeting of the American Physical Society

Neutron decay correlation measurements

STEFAN BAEßLER, University of Virginia

The study of neutron beta decay serves to determine the coupling constants of beta decay and allows several low energy precision tests of the Standard Model of Elementary Particle Physics. For this purpose, measurements of neutron lifetime and of correlations between the particles involved have to be combined. In my talk I will present a survey on experiments to measure neutron decay correlations. I want to discuss the lessons to be learnt from previous experiments in Europe and the US to the experimental program at the SNS.