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【714】 Neutron beta-decay experiments

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High-precision measurements of angular correlations in neutron beta decay address a number of questions which are at the forefront of particle physics. For a new generation of beta decay experiments, like the PERC currently under construction in Munich, frequency-based beta spectroscopy using the cyclotron radiation emitted by electrons in a homogeneous magnetic field have been emerging. PERC is the successor of the PERKEO-III, which established pulsed neutron beam technique. In this talk some PERKEO-III results and status update for PERC will be presented. Design study of CREScScent experiment, a proof-of principle experiment aiming to combine the CRES technique with the signal amplification qualities of an RF cavity, will be introduced.

Theoretical Work

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