Contribution ID: 48 Type: not specified

Correlation measurements in beta decay probing physics beyond the standard model

Monday, 18 June 2012 14:30 (30 minutes)

In recent years the use of atom and ion traps as well as advances in the applicability of the Geant Monte Carlo code for beta particle energies have resulted in a number of new precise determinations of the beta-neutrino correlation and beta-asymmetry parameter in nuclear beta decays. Such measurements are mainly sensitive to time-reversal invariant scalar and tensor weak currents and parity violation. Results obtained extend significantly our understanding of the weak interaction at low energies. An overview will be given of recent, ongoing and planned experiments.

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Session Classification: Mon 14:00-15:30