

Precision Measurements in Nuclear Beta Decay

Monday, 18 June 2012 15:00 (30 minutes)

Measurements in nuclear and neutron decays offer a window to determine specific fundamental couplings, like the V_{ud} matrix element of the CKM matrix, and to perform sensitive tests of discrete symmetries.

This talk will focus on two topics of precision measurements in beta decay. The first concerns recent results from pure Fermi transitions as well as recent developments from nuclear mirror transitions for the determination of V_{ud} . The second describes the final results obtained in the measurement the T-odd, P-odd triple correlation term driven by the R-coefficient in neutron decay, which has been determined for the first time.

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Session Classification: Mon 14:00-15:30