



Contribution ID: 32

Type: Poster

Experiment on measuring the ratio of the axial and vector constants of weak interaction

Tuesday, October 22, 2019 5:32 PM (1 minute)

The possibility of experimentally determining the ratio λ of the axial weak-interaction constant G_A to the vector weak-interaction constant G_V by simultaneously measuring the electron and neutrino asymmetries at the same setup is discussed. The proposed measurement and data-processing procedures are described. The determination of λ by the method in question permits disregarding the possible contribution of the Fierz interference term and dispensing with an accurate measurement of the neutron polarization.

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Session Classification: BBQ - Drinks & Posters