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Neutral and Charged forbidden contributions to $\nu-^{40}\text{Ar}$ cross sections

The contributions of neutral and charged forbidden and allowed multipole to $\nu-^{40}\text{Ar}$ cross sections are evaluated within the QRPA and PQRPA models as function of the neutrino energy in the interval of interest for supernova neutrinos. These calculations are important as input for neutrino generator and simulator as the Marley code used for DUNE experiment.

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