

Electron neutrino quasi elastic scattering in Minerva

Thursday, 8 June 2017 18:00 (2 hours)

Direct information about electron neutrino initiated quasielastic scattering will be an important input to ongoing and future long-baseline electron neutrino appearance measurements. Minerva has performed measurements of this process using the sub-dominant electron neutrino 1.8% fractional beam component using its LE NuMI beam exposure (3.5E20 P.O.T). Constraints on rates and Q^2 dependence relative to muon neutrino initiated quasielastic scattering in NuMI LE beam mode will be presented. Minerva has recently completed 12E20 P.O.T of data taking in ME Numi beam. Expected improvements in the ME beam exposure analysis which is now underway will also be presented.

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