

Challenges in Fitting MiniBooNE Anti-Neutrino data to MC Through M_A , Kappa Parameters

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The anti-neutrino data collected at the MiniBooNE project has many complications not present in neutrino-mode data. Purity is much lower in the sample due to so-called Wrong Sign contamination (neutrinos in the anti-neutrino sample), and there is an additional relevant scattering target in hydrogen. We want to fit the axial parameter M_A and pauli blocking parameter Kappa to our data to improve data-MC agreement in the kinematic variables. There is significant disagreement, especially at low Q^2 and the forward scattering angle, if we use the world values $M_A = 1.015$, $K = 1.000$.

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