

MK Single Pion Production

Tuesday 22 August 2023 14:00 (15 minutes)

I would like to present my recent work at the NuFact workshop in Seoul. <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.107.025501>

I have developed a single pion production model in neutrino-nucleon interaction:

<https://inspirehep.net/literature/1634864> .

Then I used electron scattering data to extract the nucleon form factors:

<https://inspirehep.net/literature/1802724> ,

In the recent paper, I extended the model to the transition region between resonance and Deep Inelastic regions (high momentum transfer, Q^2 , and hadron invariant mass, W) which is extremely important for neutrino oscillation experiments such as DUNE.

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