

## MK Single pion production model (online)

*Friday, October 28, 2022 9:00 AM (25 minutes)*

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> ,

and recently I extended the model to the transition region between resonance and Deep Inelastic regions (high momentum transfer,  $Q^2$ , and hadron invariant mass,  $W$ ):

<https://inspirehep.net/literature/2059726> ,

which is extremely important for neutrino oscillation experiments such as DUNE.

I presented the first article in the last NuInt but the two recent articles have not been presented before. Therefore, I would like to present my recent work at the NuInt workshop in Seoul.

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**Session Classification:** Neutrino Pion Productions