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Topics

- The e-scatter method : define requirements for detector, needed exposure, study dependence on ν angle, possibility to measure ν energy, precision achievable, limitations.
- The low- ν method: requirements for detector, needed exposure, reliability at low energies, precision achievable, limitations.
- Hadroproduction
- Beam monitoring and synergies with muon monitors
- Other ideas (nu-prism...), but also the spectrometer for DUNE beam, enubet
- Example studies of real detectors..
- Near-to-far extrapolation

Some Documentation

Low-nu method

- [The_Low_nu_Method-ABodek-nufact2012.pdf](#): The low-nu method talk by Bodek at Neutrino 2012
- [Methods to Determine Neutrino Flux at Low Energies:Investigation of the Low Method](#) : Bodek *et al* paper
- [Neutrino Flux Predictions for the NuMI Beam](#) : NuMi flux measurement with some comparison between prediction and in-situ measurements

neutrino elastic scattering method

- [chris_20170328_nue_lownu.pdf](#): Chris Marshall talk at ND workshop on enu-e and low-nu

Other Relevant Meetings

- Meeting on the future of NA61/SHINE <https://indico.cern.ch/event/629968/>
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- [analysis-notes.pdf](#): Notes on how Gaussian multivariate distributions work and covariance analysis
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This topic: CENF > NearDetectorWG1

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