

## Two types of problems:

- the kinematics of present experiments is such that one does not have really DIS, but rather an overlap between higher-resonance region and DIS region → modeling of response functions in this region is needed (already at electron-scattering level).
- Nuclear effects: at high energies “traditional” nuclear physics effects basically reduce to Fermi motion, which can be included using the Fermi gas model, but DIS experiments with charged leptons indicate “new” nuclear physics effects (such as shadowing) → modified parton distribution functions may be obtained from other DIS experiments, but models of such effects specifically for neutrino scattering are needed.