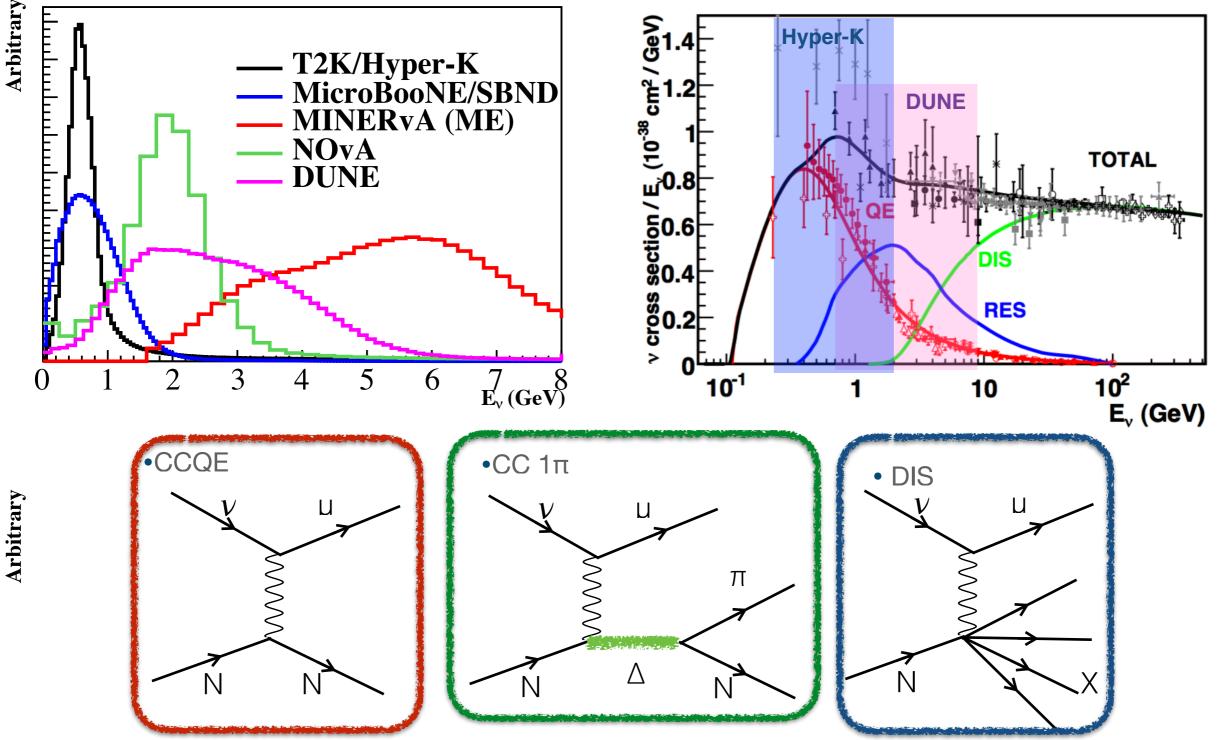
Addressing future precision experiments

J.A. Formaggio and G.P. Zeller, Rev. Mod. Phys. 84 (2012)

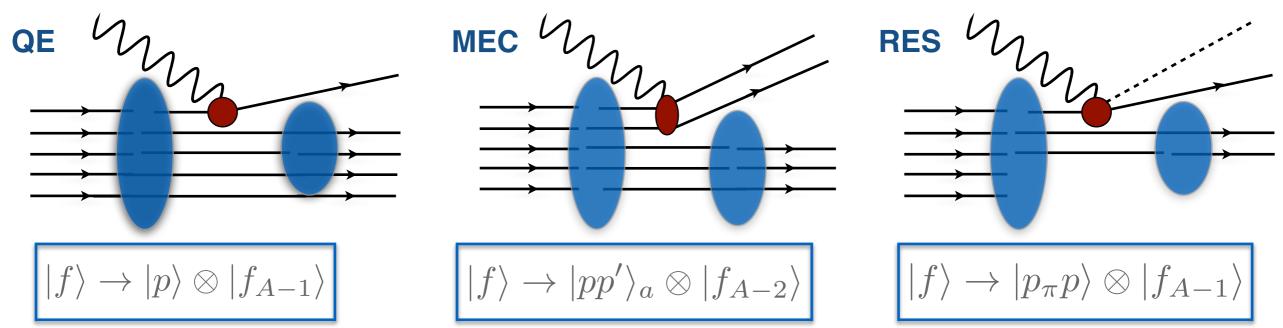


• The dominant reaction mechanism changes dramatically over the region of interest to oscillation experiment

Arbitrary

Factorization Scheme and Spectral Function

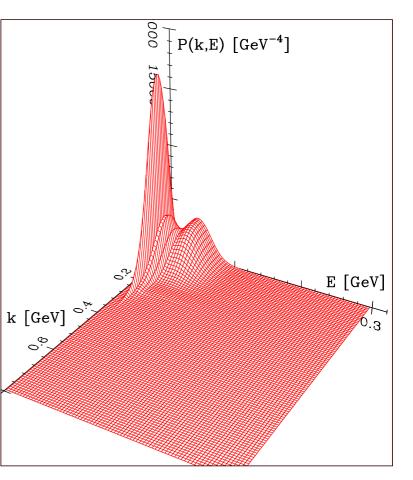
For sufficiently large values of |q|, the factorization scheme can be applied



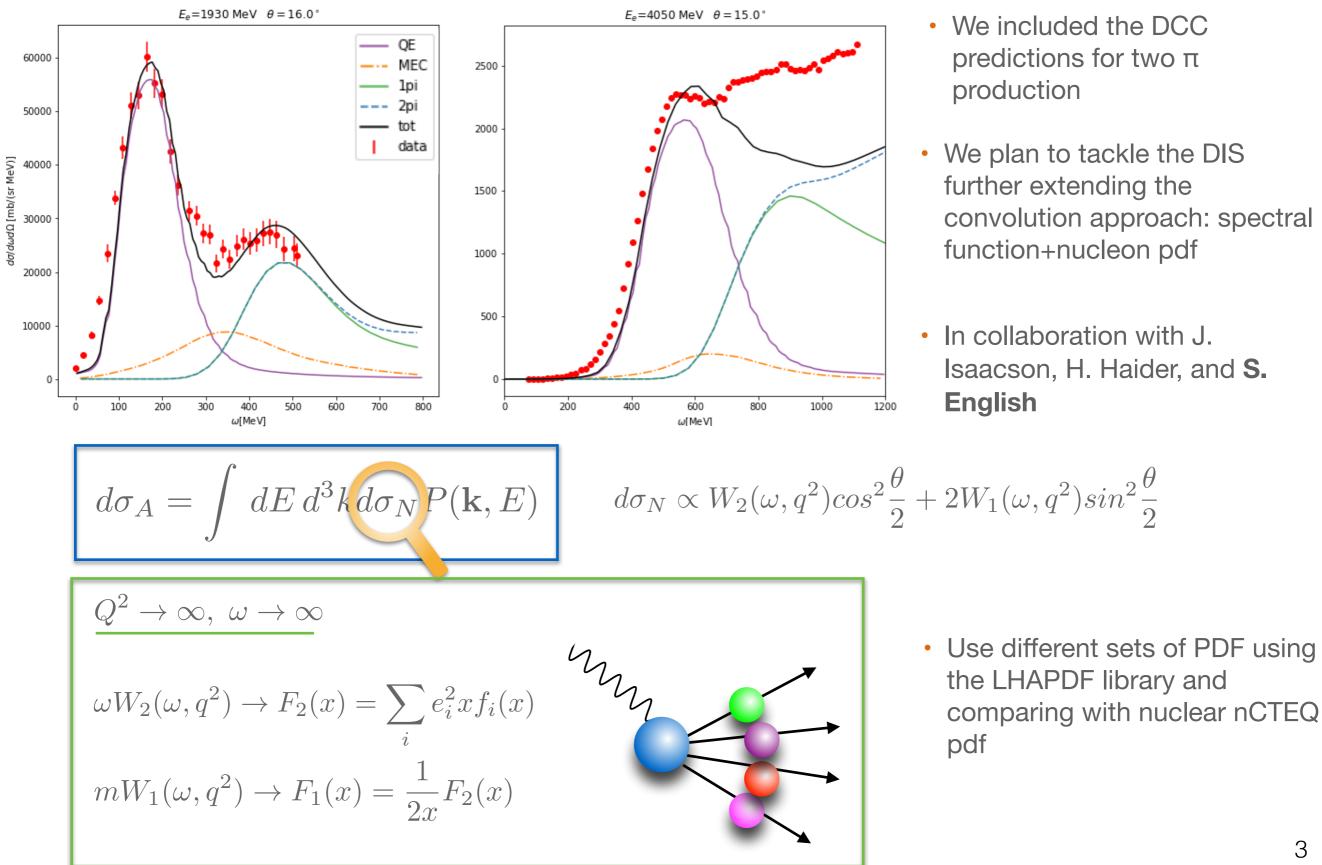
The intrinsic properties of the nucleus are described by the **Spectral Function**→ effective field theory and nuclear many-body methods

$$d\sigma_A = \int dE d^3k \ d\sigma_N P(\mathbf{k}, E)$$

O. Benhar, A. Fabrocini, and S. Fantoni, Nucl. Phys. A505, 267 (1989).



Factorization Scheme and Spectral Function



Extension to Deep Inelastic Scattering

