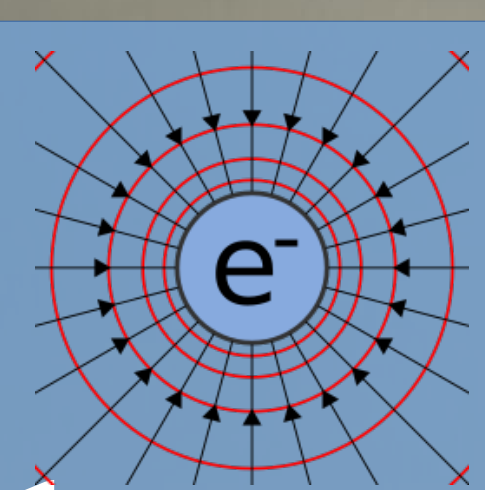


Oscillation Physics & Extracted Parameters

- Entering an era of high precision measurements.
- Use of broad-band beams: incident neutrino energy reconstructed from final state particles.
- Miss-reconstruction can bias extracted oscillation parameters.



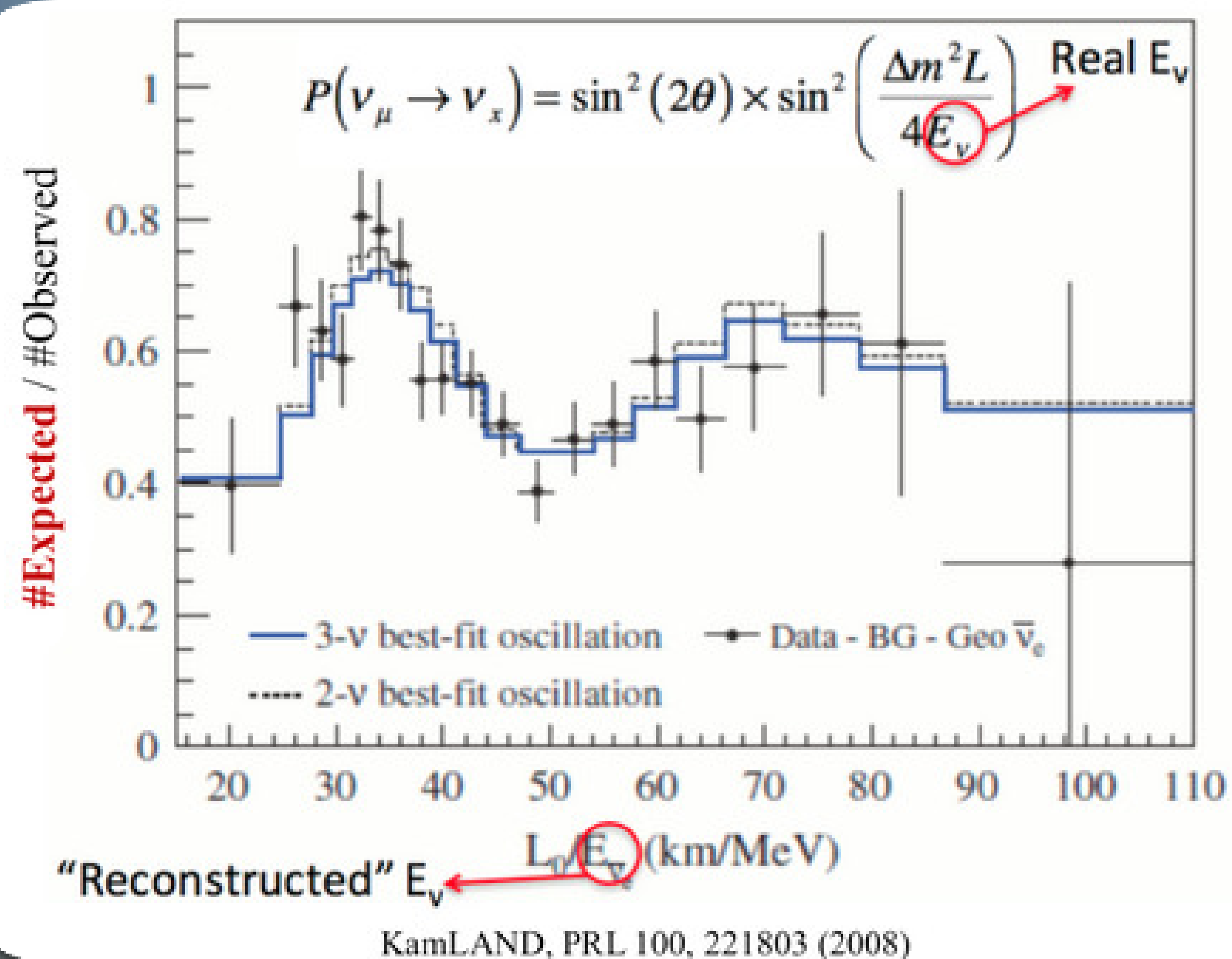
for



- e & ν share many common aspects of the interaction (isovector part).
- CLAS@JLab has a large number of e-scattering data in a wide phase-space.
- Beam energy and EM interaction well known.

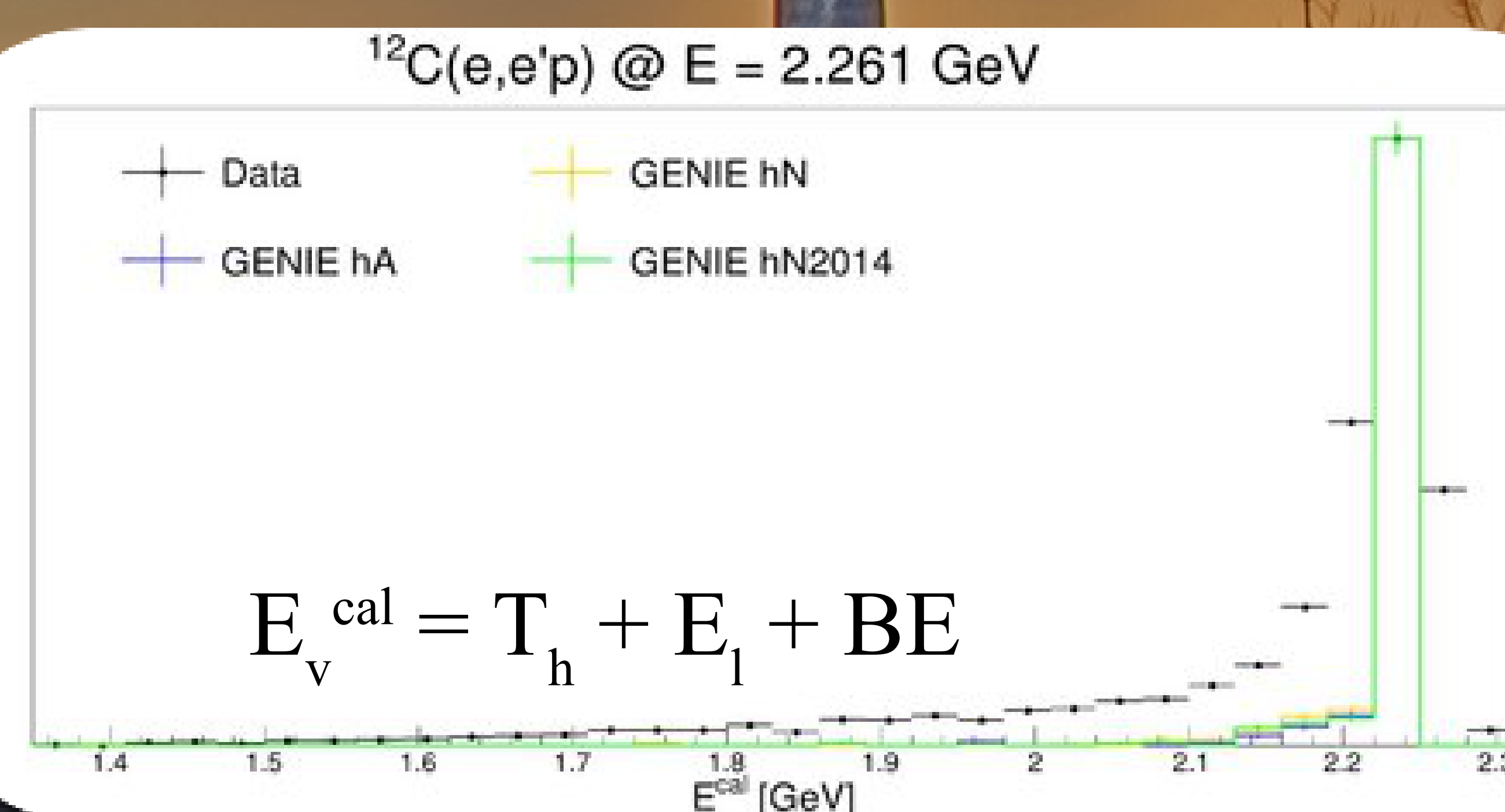
FSI and Multi-Nucleon Effects: Missing Transverse Momentum

Nuclear Cross-sections & Energy Reconstruction



Energy Reconstruction

- Simulation fails to reproduce the data.



Future Plans & Impact

- Study the (e,e'p) phase-space to identify regions with good energy reconstruction.
- Expand to more generators / reactions / nuclei / energies.
- Study impact on bias in oscillation analyses.

