CLAS12 @ DNP

Public release of CLAS12 performance and results

Demonstrate the detector is working properly and the experiment is on track for a broad and timely physics outcome

- data MC comparison
- known particles (pi0...)
- basic dependencies (missing mass....)
- only (very) preliminary results

Collaboration among the analyzers:

- consistency of data selection (fiducial volume...)
- consistency of corrections (kinematic correction, background subtraction...)
- cross-check of yields and kinematic dependencies
- common MC productions

CLAS12 Performance: SIDIS pi0

CLAS₁₂

First SIDIS results e'π⁰X

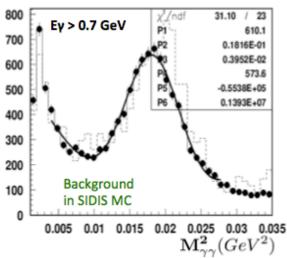


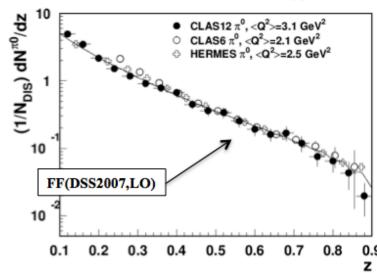
Extraction of e'π⁰X/ e'X ratio (ratio of semi-inclusive pi0 to inclusive electron) requires good control over the acceptance of photons.

π⁰
e'
P

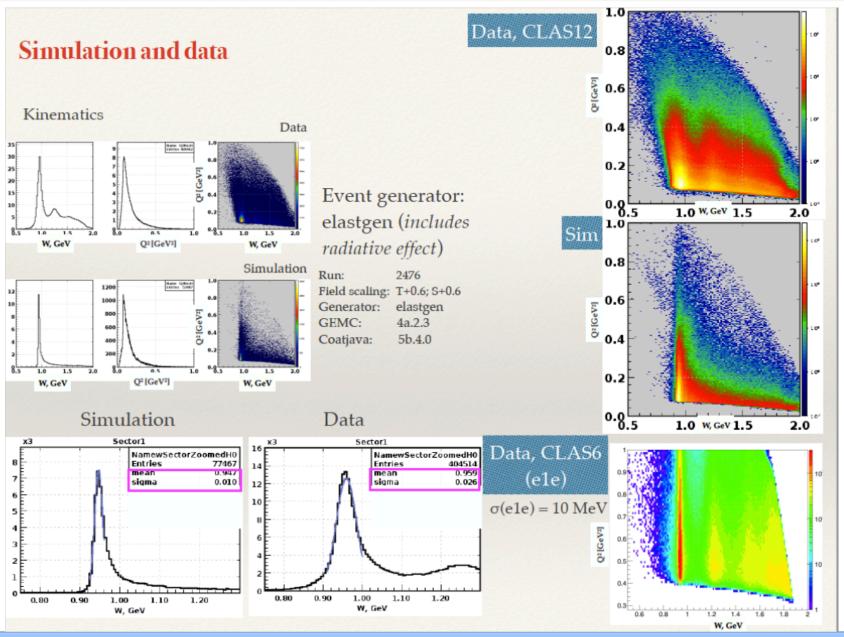
At large x, when sea contribution can be neglected $e'\pi^0X/e'X$ should follow the z-dependence of the fragmentation function (after integration over P_T)

~0.5% of spring 10.6 GeV data.



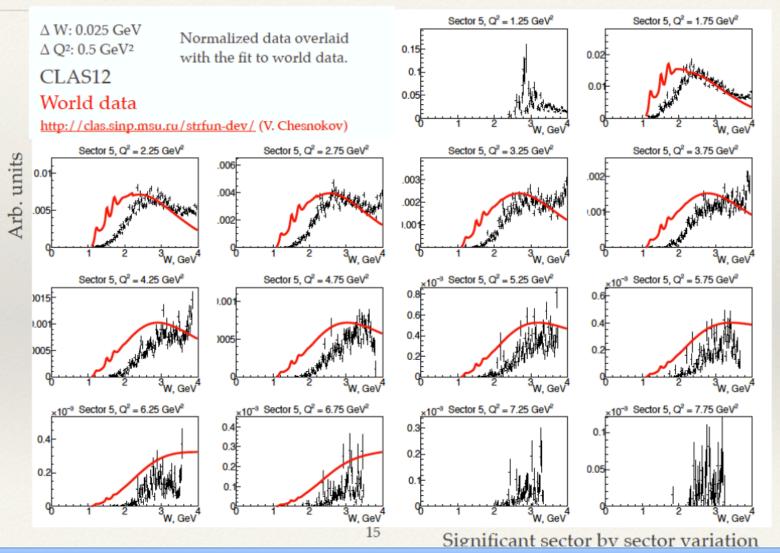


CLAS12 Performance: Elastic



CLAS12 Performance: Resonances

Normalized Yield in Sector 5 Compared to World Data



DPWG

Weekly meeting on Thursday (specific topics)

Few common WG meetings with the Analysis Review Committee

Dry runs in October 11/12

Review by DPWG and 1st-Experiment Analysis Review Committee

Account for ACE recommendations

Any requirement before production starts?