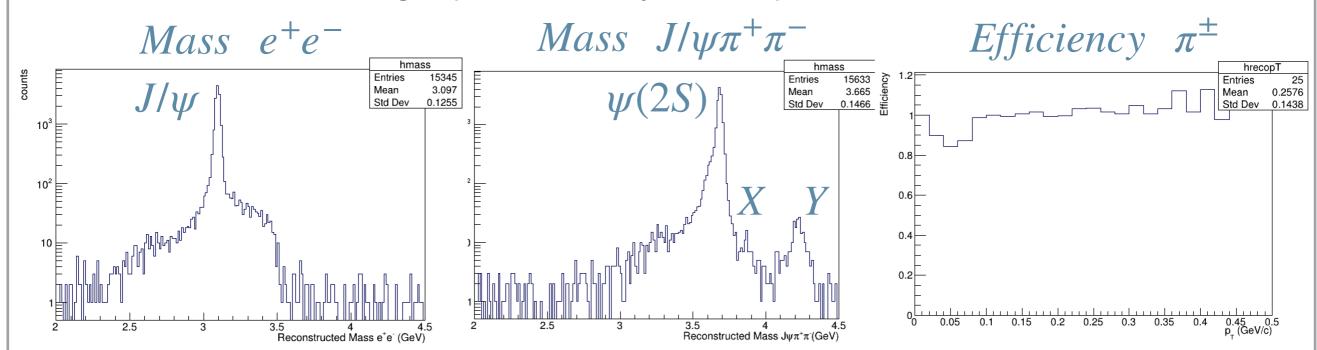
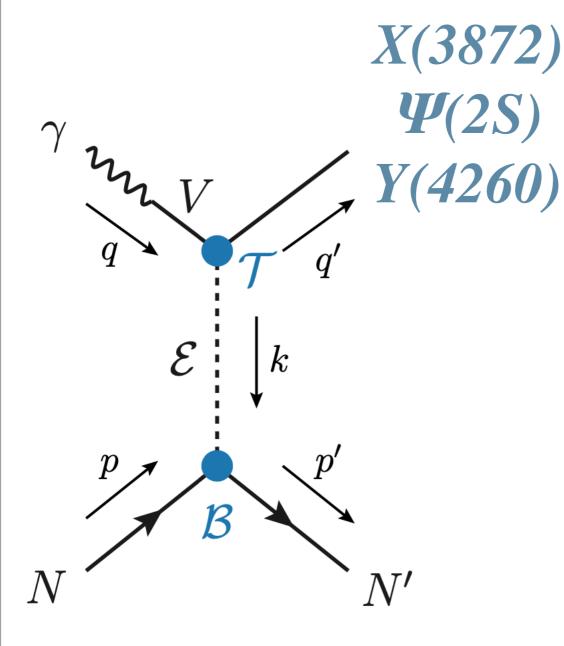
Initial studies of $J/\psi\pi^+\pi^-$

- $\psi(2S), X(3872), Y(4260) \to J/\psi \pi^+ \pi^-$ with 10 x 100 GeV beams run through full simulation (August 27 https://dtn01.sdcc.bnl.gov:9000/minio/eictest/ATHENA/RECO/master/SPECTROSCOPY/)
 - Older sample where some jobs failed, so low statistics for X and Y: ready for new samples with different beam energies and updated (final?) detector model
- Working with Ankhi Roy, Neha Shah, Amal Sarkar and many students at IIT Indore, IIT Patna and RKMRC Narendrapur
 - Studying mass resolutions and efficiencies for individual tracks: sensitive to low-pt threshold for charged pions, currently seems optimistic?

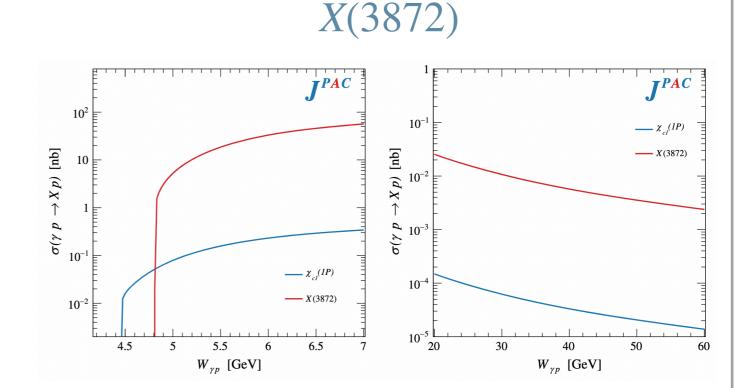


Example code and some exercises for students: https://github.com/jrstevenjlab/eic_spect/blob/master/athena/README.md

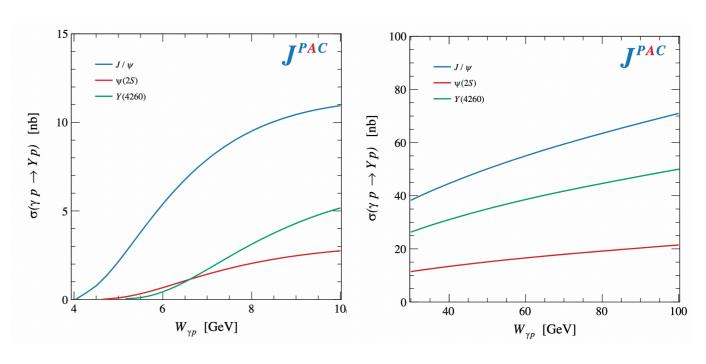
Reminder: model for X and Y $\rightarrow J/\psi\pi^+\pi^-$



JPAC: PRD 102, 114010



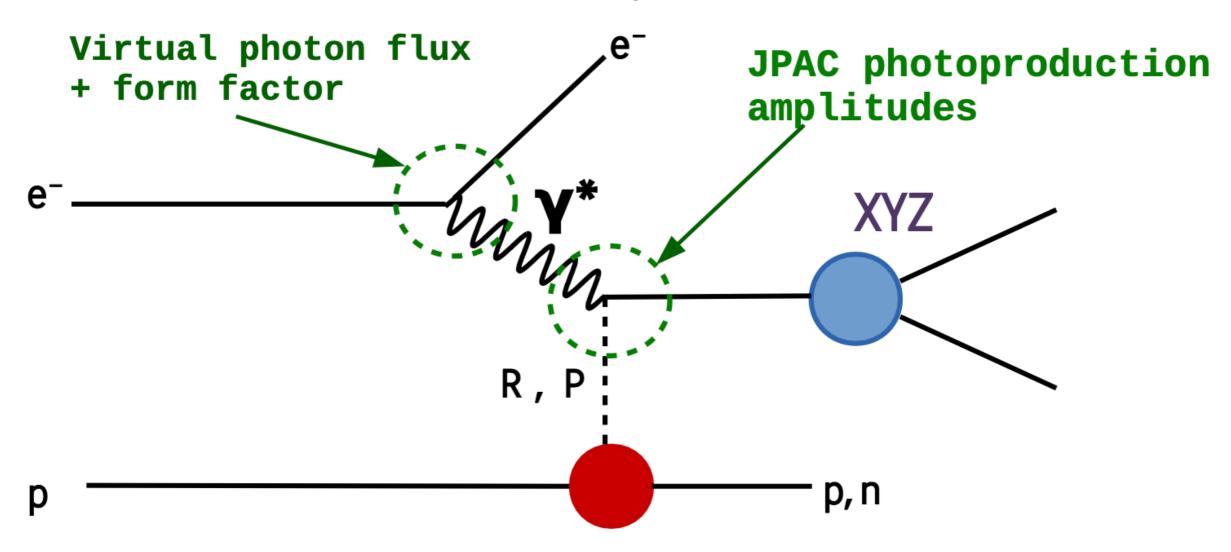
Vector States



Reminder: elSpectro Event generator

Derek Glazier

Factorise 2 photon vertices



Generator available on GitHub: https://github.com/dglazier/elSpectro