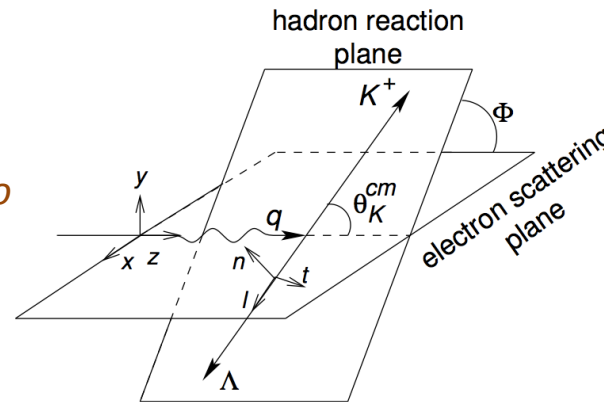


Induced Polarization of $\Lambda(1116)$ in Kaon Electroproduction

- Studies of $K^+\Lambda$ electroproduction provide for:
 - Complementary channel to πN to study N^* spectrum
 - Provide data to tune models to establish KY reaction mechanism
 - Complementary channel to photoproduction due to both longitudinal and transverse photocouplings of virtual photon

- Use self-analyzing nature of $\Lambda \rightarrow p\pi^-$ weak decay to measure Λ induced polarization.

Integrate over $\Phi \Rightarrow$
only n -component is non-zero



- Data compared to advanced single-channel hydrodynamic models fit to precision $\gamma p \rightarrow K^+\Lambda$ data do not describe the γ^*p data.
 - need constraints from simultaneous fits to γp and $\gamma^*p \rightarrow K^+\Lambda$ data

Ref.: M. Gabrielyan et al. (CLAS Collaboration), Phys. Rev. C 90, 035202 (2014)

