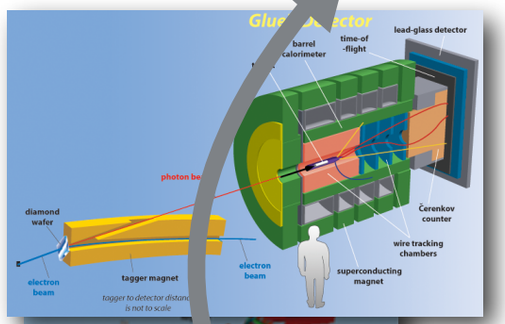
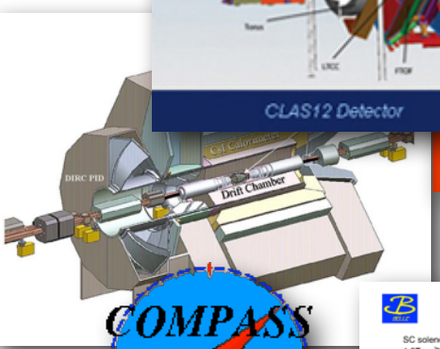
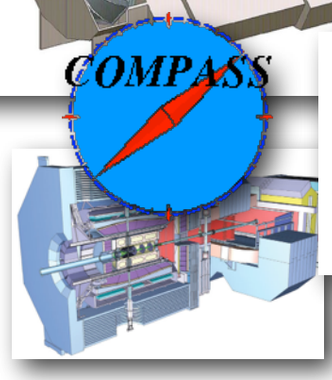
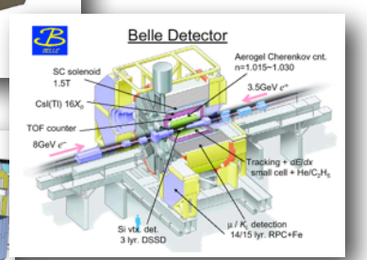
Support Amplitude Analysis !

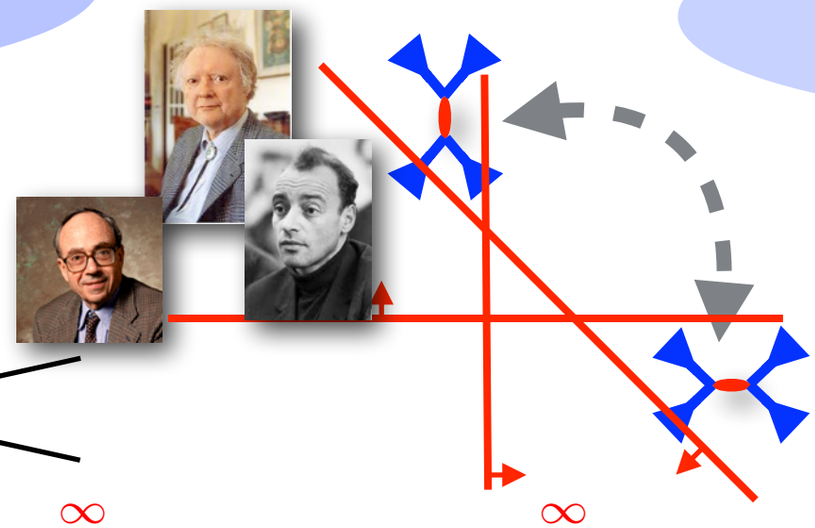
Events, X-sections,MC





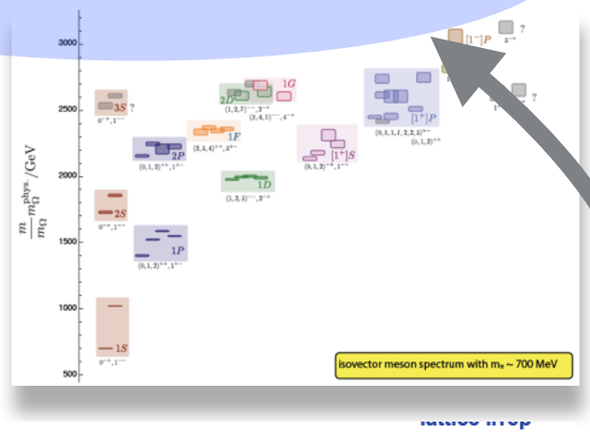


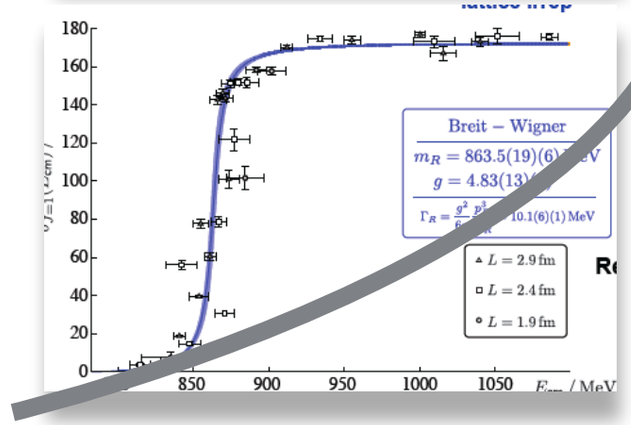




$$A(s,t) = \sum_{l=0}^{\infty} f_l(s) P_l(z_s) = \sum_{l=0}^{\infty} g_l(t) P_l(z_t)$$

QCD Predictions





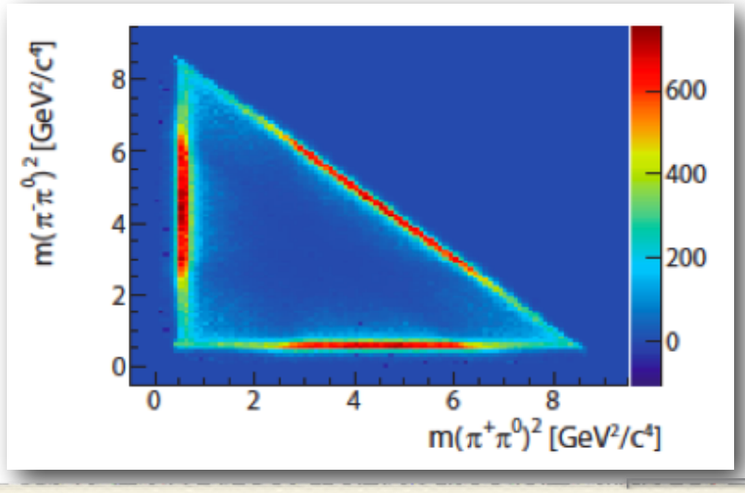
Amplitude analysis: based on S-matrix principles:

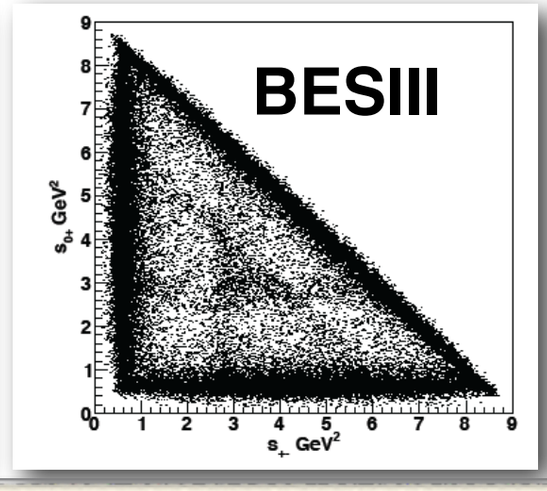
- analyticity
- unitarity
- crossing

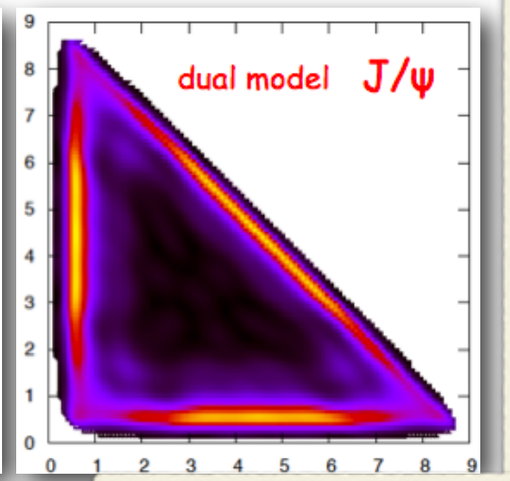
Global effort
JLab/IU/GWU Physics Analysis Center

Physics of interest: form factors, GPD's, resonance parameters, etc. resides outside experimentally accessible range of kinematic variables.

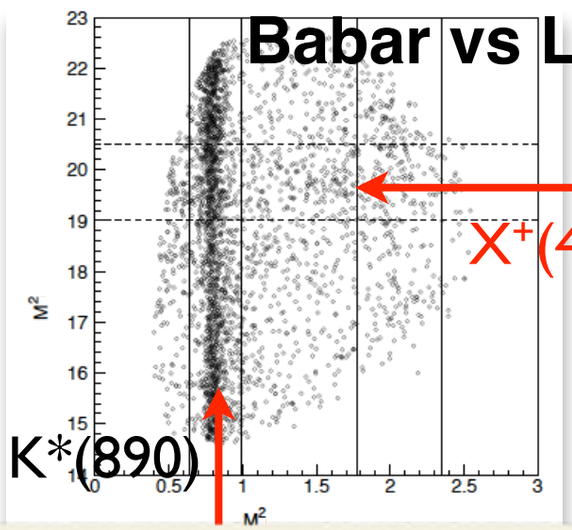
Amplitude analysis:examples

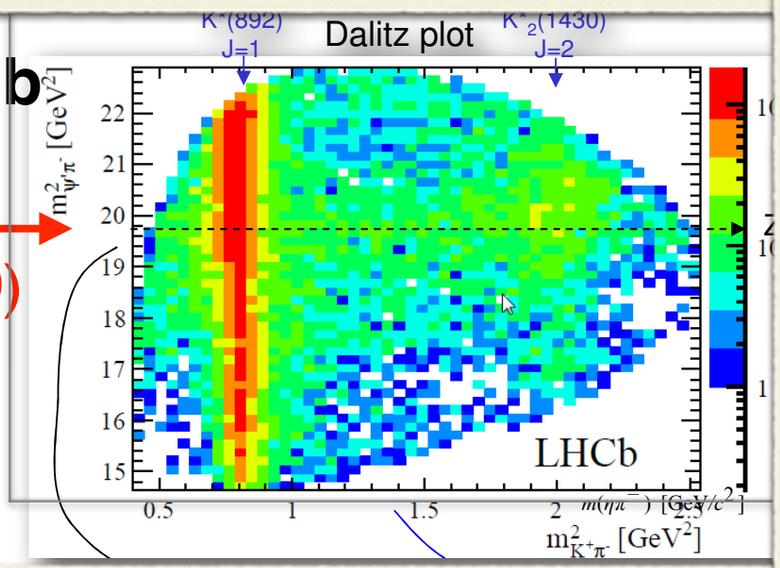


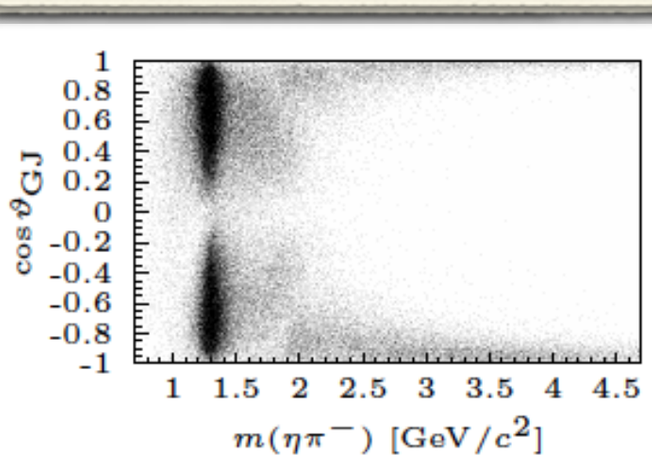


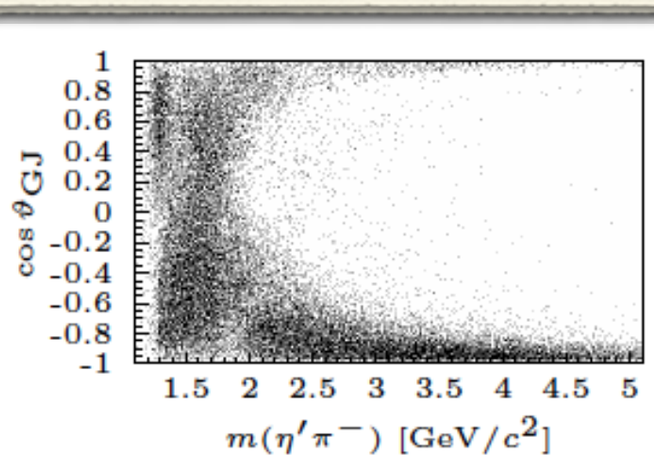


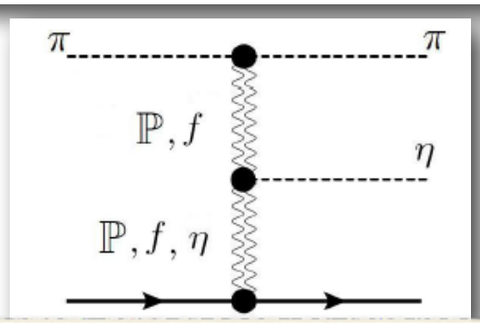
Babar vs LHCb

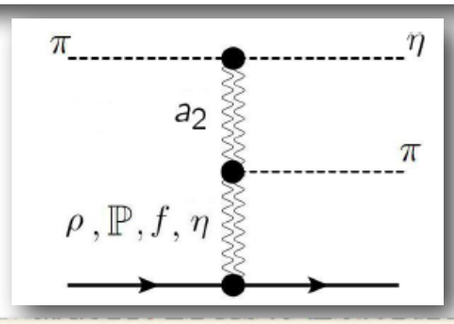












1-+ Exotic COMPASS