

Exclusive Processes W.G. - Benchmarks

Preliminary outcome of a participated discussion on Feb. 14

- **DVCS**
 - On proton, including polarization (FX Girod, generator: MILOU & studies by S. Fazio, +...)
 - On deuteron: with proton-tagging for measurements on neutron (possibly Genepi, Silvia N.)
 - Coherent on light ions: D with double tagging and He4 (Vadim Guzey, Raphael and Sergio + students)
- **TCS**
 - on proton (Generators: Grape, S. Niccolai)
 - Low Q^2 constraints on electron, high Q'^2
- **Meson production**
 - Heavy: J/Psi and Y - (Elke A. studies for J/Psi, eSTARlight - Spencer K., SARTRE generator, ANL group have generators);
 - can one distinguish Y states?
 - Light: phi (s s-bar)
 - 2π (includes ρ , f_0 , f_2 ...)
 - π^0 as DVCS background, [A. Kim, FX Girod, S. Fazio]
 - K, η , D-mesons
 - On heavy ions, challenges: |t| reconstruction, suppression of incoherent part (SARTRE, Thomas U., Tobias Toll)
 - Charged current production of D-meson via W exchange, (Ivan Schmidt, Siddikov [Siddikov:2019ahb]; Simonetta L.)
 - Backward meson-production (Bill & Bernard P.)
 - Detection of electrons vs muon pairs
- **Exclusivity & rapidity gaps**
 - Overall: How hermetic does the detector need to be to see a rapidity gap? (Rapgap-generator, Daniel T.)