Discussion: Physics program for backward angle scattering

Backward angle scattering workshop, 21-23 Sep 2020

JLab12 backward scattering experiments

ep CLAS12 π^0, ϕ, other channels, σ?; $ed \to pn$ ← **TODAY**

ep Hall C $\pi^0, \eta; \omega, \rho, \phi$, other channels σ? ← **TODAY**

γp Hall C Compton ← **TOMORROW**

γp Hall D $\omega, K\Sigma, B\bar{B}$ ← **TOMORROW**

- What is needed for planning, simulations, analysis?
- What are the priorities for channels and kinematics?

Theory and interpretation ←

Hard dynamics: QCD factorization, TDAs

Soft dynamics: Hadronic/Regge models

- What developments are needed, possible?

High-energy backward scattering at EIC and UPCs ←

New opportunities: Broad kinematic range, other channels?

- What simulations and modeling are needed?
- What detection is needed/possible?

Connections and synergies with hadronic probes ←

$\bar{p}p$ at PANDA, hadron-p at J-PARC

- How to integrate them in common physics program?