

# Round Tables summary

- 1) Experimental facilities and current/future experiments (A. Jentsch, L. Pentchev)
- 2) Theory / phenomenology (S. Liuti, K. Shiells)
- 3) Compton-like reactions and multichannel approach to CFF fits (Y. Hatta, C. Weiss)
- 4) Meson structure and hard exclusive meson production (D. Dutta, Y. Zhao)
- 5) Future measurements opportunities (M. Defurne, J. Stevens)

# 1) Experimental facilities and current/future experiments (A. Jentsch, L. Pentchev)

- “missing” topics for EIC/EPIC or not well represented (meson structure, semi-exclusive...)
- several communities join now towards EIC “low/medium” / high energy/jets
- factorization limits, handbag diagram approximation, longitudinal x-sec
- complementarity between low and high energy measurements and the experiments
- each experiment contribute to something unique

## 2) Theory / phenomenology (S. Liuti, K. Shiells)

- database, data sets available to the community. Maintenance? Dissemination
- closer theorists/experimentalists collaboration in particular for planning future experiments and for interpretation / need more knowledge of what “others” are doing (effort in both way)
- role of CNF and other “centers” or structure. Organization “above us”?
- US efforts vs efforts in other countries: each country working (too) independently  
But then different approaches, however we all “reinvent the wheel”
- presentation of experimental data to facilitate CFF fits and error propagation / choice of kinematics and binning
- tutorials during workshops

### 3) Compton-like reactions and multichannel approach to CFF fits (Y. Hatta, C. Weiss)

- overlap data from JLab, HERA, COMPASS, BNL, EIC... Multichannels approaches
  - need projections at large  $x$  / low  $x$  approximation doesn't allow fitting medium energy data
  - evolution, higher twists / Scale & model dependence
  - 2 to 3 and diffractive processes
- Need alternative reactions to DVCS mostly studied, each channel has advantages
- Amplitude analysis, analytic+scaling properties
  - need more theory for novel observables and reactions, urgent because experiments running now
  - global analysis

#### **4) Meson structure and hard exclusive meson production (D. Dutta, Y. Zhao)**

- benefit of JLab energy upgrade and of upcoming data/experiments
- very different approach / experimental methods at LHC in UPC
- chiral even/odd sensitivity with complementary channels
- factorization breakdown, “leading twist dominance”: calculate higher twists or kinematic limits
- need of pion flux models (Sullivan...)
- hadron-hadron collider vs fix target and lepton-hadron: all have advantages, access different regions, and complementarity in particular universality studies
- electro- versus photo-production / access different kinematics
- finite  $Q^2$  in experiments.

5) Future measurements opportunities  
(M. Defurne, J. Stevens)

