

Small x and diffraction discussion

- exclusive production of dileptons - $p_{T}(ll)$ dependence
- interplay between MPI and low-x - is MPI hiding low-x effects in jet decorrelation measurements for example in Mueller-Navelet
- what are measurements to be done to pin down low-x effects - new observables?
need more low pile-up runs in order to do forward jets effectively?
What is the range of applicability of the hybrid (collinear + kt /small x) factorization?
- connection between diffraction and mpi effects — can MPI models explain the survival probability seen in HERA/Tevatron. What is the connection between Color Reconnection and gap survival
- What do we gain of having multiple approaches - TMDs, Wilson lines, BFKL, unintegrated gluon pdfs. Is any of the approaches more appropriated for including mpi?
- Should we still search for saturation in pp or this can only be done in heavy ions?
Vector meson exclusive production probes low-x gluon at $Q^2 \sim 2.5 \text{ GeV}^2$ (saturation regime).
- Inclusive of heavy quarkonia is not yet fully theoretically understood - two gluon rescattering mechanism can play role. Are these effects present in other observables?