

Low-x, BFKL, QCD Fits - Discussion - session



Topics For Discussion

1. NLL BFKL/ resummation of large NLL corrections in the kernel and impact factors
How important are the uncalculated NNLO contributions to the BFKL characteristic function - do we have any way of estimating these?
2. Parton saturation: saturations scale, probes, relevance for the LHC
3. How low in x do we need to go for a BFKL approach (which is an expansion in $1/\ln(x)$) to be valid? For such low- x are the values of Q^2 sufficiently large to be able to rely on perturbative QCD. Can we search experimentally for the overlap region between DGLAP and BFKL where the DLL approximation is expected to be valid.

4. Higher twist effects at small x : can we observe them, how do they influence determination of pdfs at small x
5. Probes of small x dynamics, DGLAP / BFKL, signatures of genuine BFKL effects
6. Future Colliders - can we learn more from these than we have already learnt from HERA.