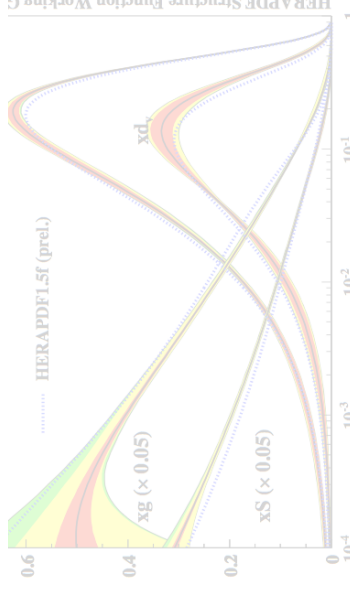
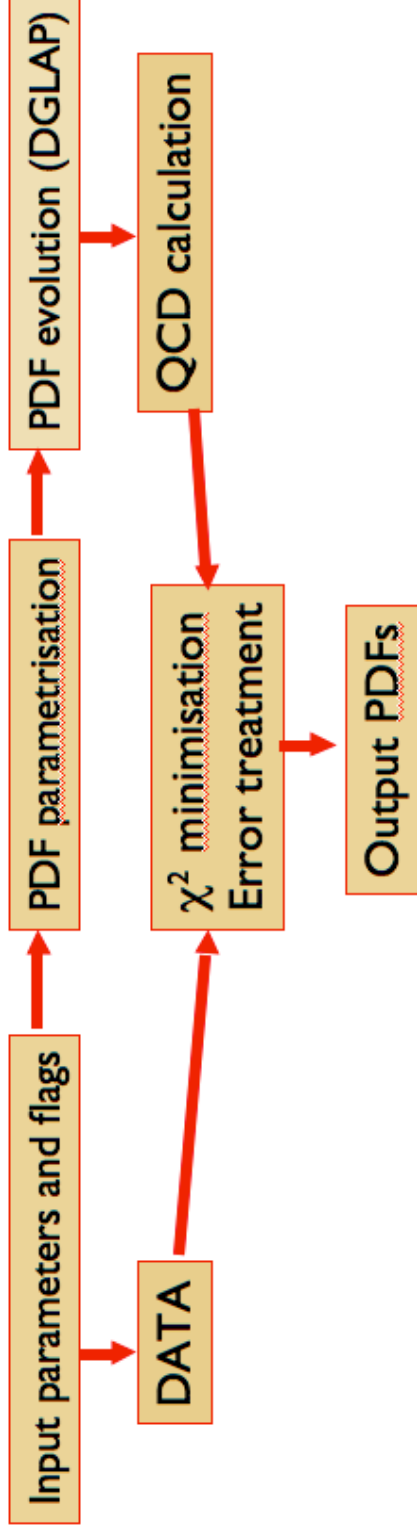


Schematics of PDF extractions



PDFs are extracted from QCD fits to cross section data:

- Parametrise PDFs at a starting scale by smooth functions with sufficient parameters;
- Evolve PDFs to other scales by the evolution equations (DGLAP);
- Compute cross sections for DIS/DY (or other processes) at NLO (NNLO);
- Calculate χ^2 measure of agreement between data and theory model;
- Obtain the best estimate of the PDFs by varying the free parameters to minimize χ^2