Inclusive reactions

- Main observables: double-differential DIS cross sections $\frac{d^2\sigma}{dQ^2\,dx}$
  - Study both NC and CC cross section
  - Beam lepton: study both e^- and e^+ (e^+ CC $\rightarrow d$ in proton)
  - Beam hadron: study p, D, ^3He
- Extract F_2, F_L, impact on PDF fits

Inclusive reactions

Simulation plans

- For NC events, use DJANGOH + electron smearing
- For CC events, use DJANGOH + fun4all

DJANGOH generator (with EW WG)

- 10M ep NC events (x9 beam energy settings)
- 10M eD NC events (x6 beam energy settings)
- e^3He NC events (in progress)
- CC events (in progress)

In-progress tasks:

- Extract NC cross sections from smeared DJANGOH events
- Study CC event reconstruction