

# Interfacing fragmentation functions

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- Many FF sets now become available
  - Albino-Kniehl-Kramer (and BKK, KKP)
  - Bourhis-Fontannaz-Guillet-Werlen
  - de Florian-Sassot-Stratmann
  - Hirai-Kumano-Nagai-Sudoh
  - Kretzer
  - ...
- Needs for phenomenological studies
  - systematic comparison between available sets
  - sensitivity of the different sets on a variety of observables

Ideally, all sets should be called via a **unique interface**

# Les Houches Accord PDF (LHAPDF)

- Interface for parton densities
  - started at Les Houches Workshop 2001
- Includes all PDF sets currently available
  - CTEQ, GRV, MRST, ... + sets for pions and photons
- Successfully used in major codes over the last few years

<http://projects.hepforge.org/lhapdf/>

# Basic features of LHAPDF

- PDFs are defined analytically at soft scale  $Q_0^2$ 
  - no need for “heavy” grids
- QCD evolution done within LHAPDF itself
  - two codes: EVLCTEQ and QCDNUM
- Older sets defined by grids can also be added

# Some open questions

- Should the same effort be invested for FFs?
  - Can all the work performed for LHAPDF be easily adapted?
  - Would some people be interested to contribute?
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- Related issue: what about error analysis in FFs similar to what has been done for PDFs?