



An interactive web page for the uPDFs and MC

H. Jung, A. Knutsson, M. Kraemer

MC meeting, DESY, 23/8-2010

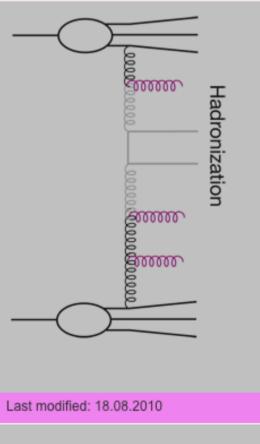


The web page



Temporary link: http://wofwiki40/





MELCOME

Welcome to the world of CCFM Physics. On this website you can find useful tools such as our <u>Online Plotting of unintegrated PDFs</u>, where you can choose between different parameters to plot the xA(x,kt,p) distribution as a function of x or kt. Or you would like to plot the proton structure function F2? Then our tool <u>Online Plotting of F2</u> is your choice. In the case you are interested in Monte Carlo Generators, we can warmly recommend <u>Cascade</u>, which is the only hadron-level Monte Carlo Generator based on the CCFM evolution equations. If you need general information about CCFM physics, please read our summary <u>About CCFM</u> and have a look at our list of interesting <u>Publications</u>.



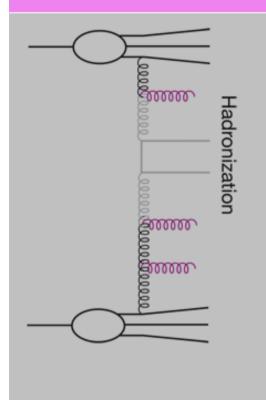
Plotting of uPDFs







Home About CCFM Online Plotting of uPDFs Online Plotting of F2 Cascade Publications Contact



ONLINE PLOTTING OF UPDFS

Using the form below you can calculate, in real time, values of xA(x,kt,p) for any of the uPDFs. You can also generate and compare plots of xA(x,kt,p) vrs x and vrs $kt^{**}2$ at any p for up to 4 different parton types or PDFs.

in case a collinear PDF is used (option dPDF, Bluemlein): 10041

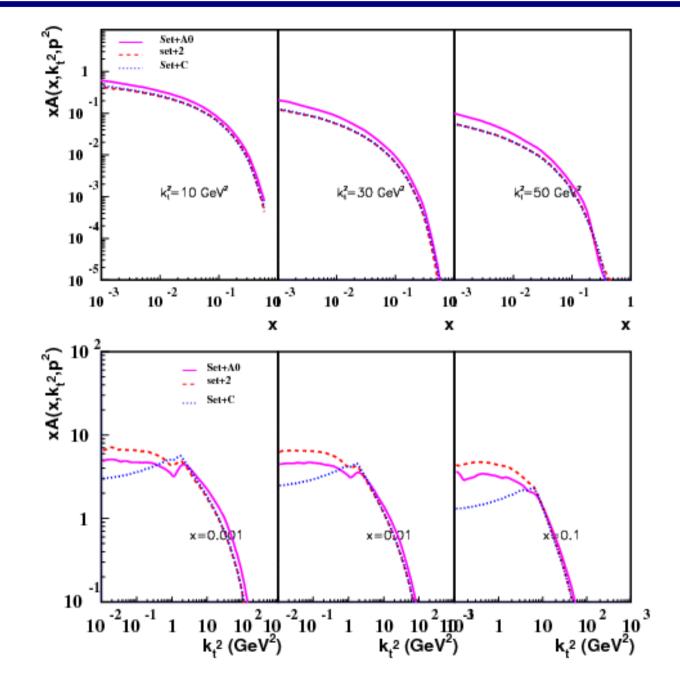
- 1 gluon Set A0 scale-factor 1.0
- 2 gluon set 2 scale-factor 1.0
- 3 ✓ gluon ♦ Set C + scale-factor 1.0
- 4 gluon Set A0 scale-factor 1.0

(Make the Plot/Calculation) (Reset the Form



Plotting of uPDFs



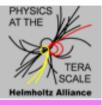




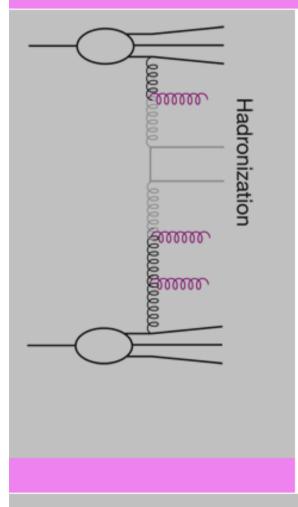
MC comparisons to data



CCFM Physics



Home About CCFM Online Plotting of uPDFs Online Plotting of F2 Cascade Publications Contact



Outine Prolling of 15

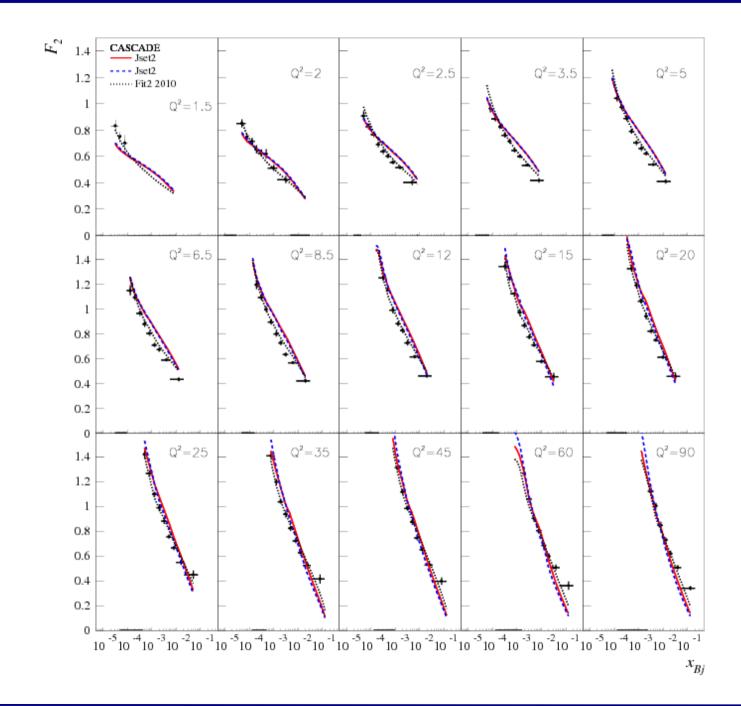
Using the form below you can calculate, in real time, values of xA(x,kt,p) for any of the uPDFs. You can also generate and compare plots of xA(x,kt,p) vrs x and vrs kt**2 at any p for up to 4 different parton types or PDFs.

uPDF 1: Jset2	+
uPDF 2: A0	*
uPDF 3: Fit2-2010	•
uPDF 4: [-	+
Plot	



MC comparisons to data







Summary



- The first draft of the web page is up. http://wofwiki40/
- The calculations and plotting of the uPDFs are done online (with a program running in the background). The MC predictions for the data are more time consuming and the generator have to be run offline in advance.
- Still under construction. In particular we want to add more data comparisons.
 For example:
 - Update the data comparisons to the new combined F2 data from HERA!
 - More MC predictions for the F2 data.
 - Comparison to more exclusive final states.
 - Add comparisons to non-ep data
 - Add also other MC generators?
- More info to be added, e.g. references to the publications.
- What do you want to see on the web page?

Please visit and give us feedback!

You are welcome to contribute!
 (E.g. running generators/making plots/maintaining scripts)

hannes.jung@desy.de mira.kraemer@desy.de albert.knutsson@desy.de