

From: Masahiro Kuze kuze@phys.titech.ac.jp
Subject: Re: [h1zeus-herapdf-nnlojet] [h1-zeus] Draft of HERAPDF2.0 NNLOjet paper
Date: 12. August 2020 at 06:09
To: h1zeus-herapdf-nnlojet@desy.de



Beautiful analysis and paper. Comments are all minor:

L15: does the phrase 'combined PDF and QCD fits' make a rigorous scientific sense?
Are there different things such as 'PDF fit' and 'QCD fit' and they are combined?

L111: electro magnetic -> electromagnetic

L126: sorry, I cannot count 10 free parameters - A, B, C for five PDFs make 15?
I guess some readers may think the same, so some explanation is needed.

L228: (2.0 μ_r , 1.0 μ_r) -> the latter should be μ_f ?

L241: I cannot find Eq. 7.

L321: As discussed 'in' Section 3.3

L333: 'was entered' sounds colloquial. "each jet P_T entered in the cross section (calculation)"

Figure 3,4: the plot shows xS , but the caption says $x\Sigma$

Figure 6 caption says 0.116 but should be 0.1155

Figure 9, 11: label of the vertical axis (what is plotted) differs from what is said in the caption (I mean the notation) while they match in Figure 10,12.

L438: at the same time -> At the same time

Notations (I thought Brian is in the EB?):

- s in α_s is a label (strong) and not a variable, so should be in roman (it seems H1 papers make it in roman and ZEUS papers have it in italics)

- T in p_T (as well as T in E_T , L332) is a label (Transverse) and not a variable, so should be in roman

- v in u_v and d_v is a label (valence) and not a variable, ... (ditto)

- min in Q^2_{\min} ... (ditto)

- f in μ_f in Figure 5 caption ... (ditto)

Cheers, Masahiro

2020年8月11日(火) 23:27 Wing, Matthew <m.wing@ucl.ac.uk>:

Dear All,

As promised, the paper draft on

"Impact of jet production data on the next-to-next-to-leading order determination of HERAPDF2.0 parton distributions"

is hereby circulated. It is attached to this e-mail and also linked to the indico page along with the presentation from earlier on today. Please send your comments to:

Main authors: A. Cooper-Sarkar, K. Wichmann

Editor: I. Abt

Referees: C. Diaconu (H1), M. Sutton (NNLOJet/APPLFast), B. Foster (ZEUS)

and the the managements using the mailing list for the editorial board:

h1zeus-herapdf-nnlojet@desy.de

Comments should be sent by the latest 25 August so that they can be considered in the editorial board meeting on 28 August. Please separate your comments into "significant" and "minor" so that the editorial board can quickly assess the most important issues.

Thanks,
Matthew

On 4. Aug 2020, at 13:13, Wing, Matthew <m.wing@ucl.ac.uk> wrote:

Dear All,

This is to announce an H1+ZEUS (as well as the NNLOJet/APPLFast group) plenary meeting in which the HERAPDF2.0NNLOjets paper draft will be presented. The meeting will be on

Tuesday 11 August at 14:00 (CEST).

The meeting will be remote only with the connection details and agenda given at:

<https://eur01.safelinks.protection.outlook.com/?url=https%3A%2F%2Ffindico.desy.de%2Ffindico%2Fevent%2F26856%2F&data=02%7C01%7C%7C9f90cf6ba6a748e7846a08d83e757885%7C1faf88fea9984c5b93c9210a11d9a5c2%7C0%7C0%7C637328021572560691&data=QtVOyqAORvI4IjW5h73ZrOisz1VmEn%2F6p9REU8N6Ng8%3D&reserved=0>

The paper draft will also be released to the collaborations for your consideration on the day of the presentation.

Cheers,
Matthew.

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