

PB TMD meeting

- Hoping that you are all ok !

Next workshops

- LHPC 2020 25-30 May 2020 Paris (Deadline abstract: 13 April 2020)
 - “therefore we are trying to organise an online LHCP conference in the originally scheduled window of 25 to 30 May 2020. “
 - What should we send in ?
 - nothing send, as only Posters were allowed

Next workshops

- ICHEP 2020 30 July – 5 August Prague(now considering remote participation)
 - Jet production at NLO in the Parton Branching method at LHC energies
A. Bermudez, F. Hautmann

My abstracts

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616.TMD densities at leading and higher order from the Parton Branching method

 Sara Taheri Monfared (Deutsches Elektrone...)

 Last modified: 21 Feb 2020

Submitted

We present a new determination of Transverse Momentum Dependent (TMD) parton distributions obtained with the Parton Branching (PB) method at LO, NLO and NNLO. The PB TMDs are extracted from fits to precision DIS data using

800.Drell-Yan production at NLO in the Parton Branching method at low and high DY masses and low and high \sqrt{s}

 Qun Wang (Peking University (CN))

 Last modified: 25 Feb 2020

Submitted

Transverse Momentum Dependent (TMD) parton distributions obtained from the Parton Branching (PB) method are combined with next-to-leading-order (NLO) calculations of Drell-Yan (DY) production. We apply the MC@NLO method for

857.Parton Branching method and applications to pp and ep processes

 Jindrich Lidrych (Deutsches Elektrone...)

 Last modified: 26 Feb 2020

Submitted

Transverse Momentum Dependent (TMD) parton distributions obtained within the Parton Branching (PB) approach offer a wide spectrum of applications to describe processes in nn as well as in ep interactions. We give an overview of the PB

News

- CASCADE 3.0.2-beta02 released:
 - `/afs/desy.de/user/j/jung/scratch-dust/cvs/cascade3/cascade-3.0.2-beta02.tar.gz`
 - final state PS improved (making use of PYTHIA tools):
 - FPS for $Z+j$
 - QED radiation from lepton pairs ($Z \rightarrow e^+ e^-$, $Z \rightarrow \mu^+ \mu^-$, etc.)
 - Hadronization (and tune) parameters for PYTHIA changeable in steering
- Ready on lxplus:
 - `/afs/cern.ch/user/j/jung/work/public`
 - `/afs/cern.ch/user/j/jung/work/public/runs`
 - runscript for running on batch farm with rivet
 - example for $Z+b$ at 8 TeV

News

- TMDlib2.0 is ready
 - to be uploaded today on: <https://tmdlib.hepforge.org/>
 - news:
 - using class for several instances
 - data grid files no longer distributed with source
 - install them as needed with:

```
~/jung/cvs/TMDlib/TMDlib2-local/bin> ./TMDlib-getdata -help
*****
*   TMDlib-install: tool for downloading  TMDlib grid files      *
*   Usage: TMDlib-install [--help|-h] | Name_of_TMDgrid]         *
*   TMDlib version  2.0.0-beta01      *
*   type ./TMDlib-getdata --help  for help                        *
*****
```

TMDlib-getdata: installation tool for the TMDlib grid files

Usage: TMDlib-getdata [--help|-h] | Name_of_TMDgrid]

Options:

--help | -h : show this help message

Name_of_TMDgrid:

all
PB-NLO-2018
PB-NLO_208_82
nCTEQ15FullNuc_208_82
EPPS16nlo_CT14nlo_Pb208
BHKS
CCFM
EKMP
KS
SBRS

```
~/jung/cvs/TMDlib/TMDlib2-local/bin> □
```

LHCEW yellow report this year

- LHCEW WG is planning a midterm yellow report:
 - important: benchmark comparisons
 - PB results for jets, Z+jets, W+jets ?
 - can we start a task force to produce benchmark comparisons ?
 - other contributions ?

Agenda

PB TMD discussion

Thursday, 16 April 2020 from **15:30** to **17:30** (Europe/Berlin)
at **CMS meeting room**

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Description Vidyo connection:

<https://vidyoportal.cern.ch/flex.html?roomdirect.html&key=Nh6qpY4rP69Q>

If you want to join by phone, please use one of the phone numbers listed in the link below:

<http://information-technology.web.cern.ch/services/fe/howto/users-join-vidyo-meeting-phone>

and enter the meeting extension 1010403749 in order to join.

Thursday, 16 April 2020

15:30 - 15:50

Intro 20'



15:50 - 16:10

Update on Sudakov 20'



Speaker: Mees vanKampen