

PB TMD meeting

PB – TMD discussion (I)

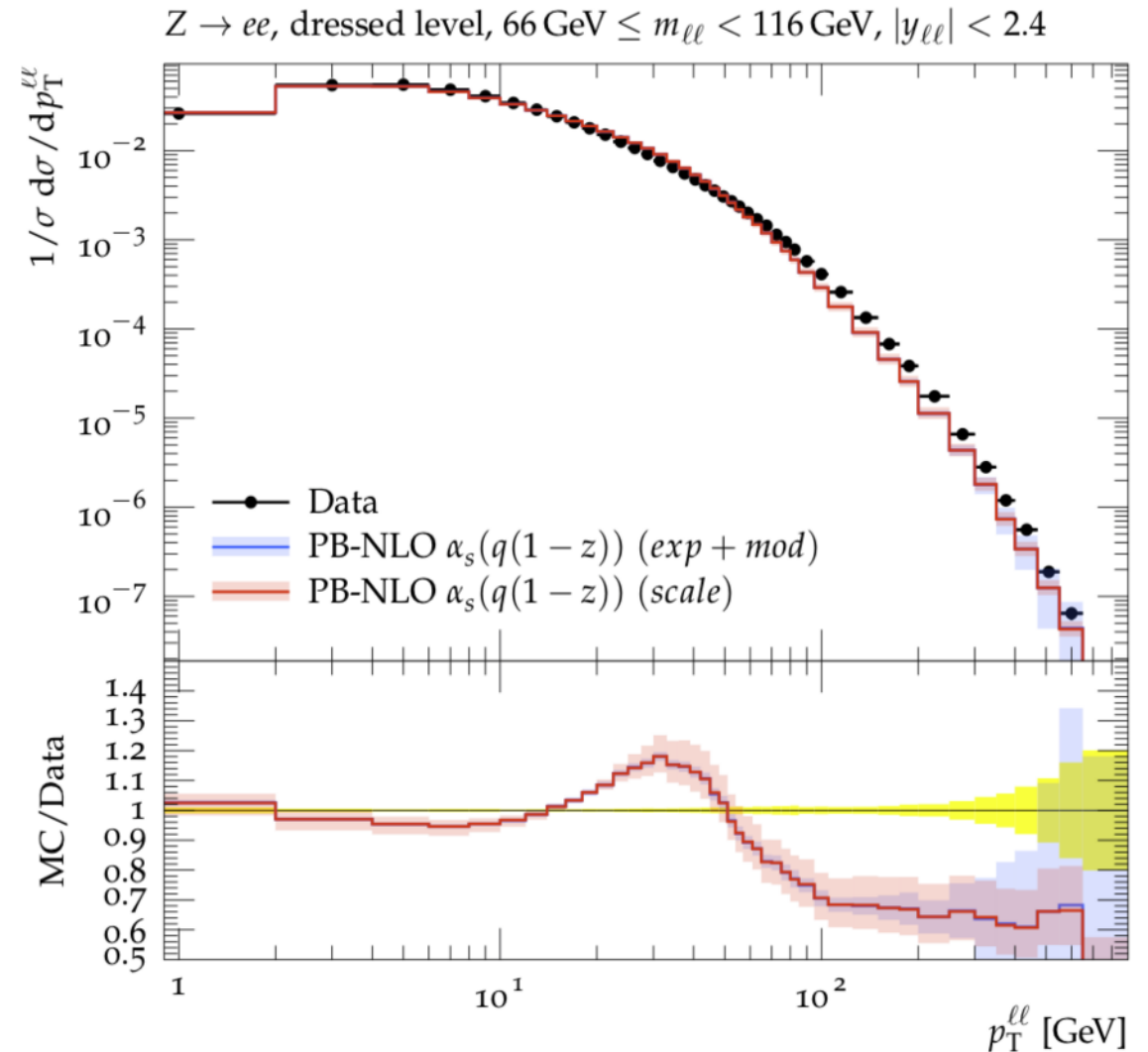
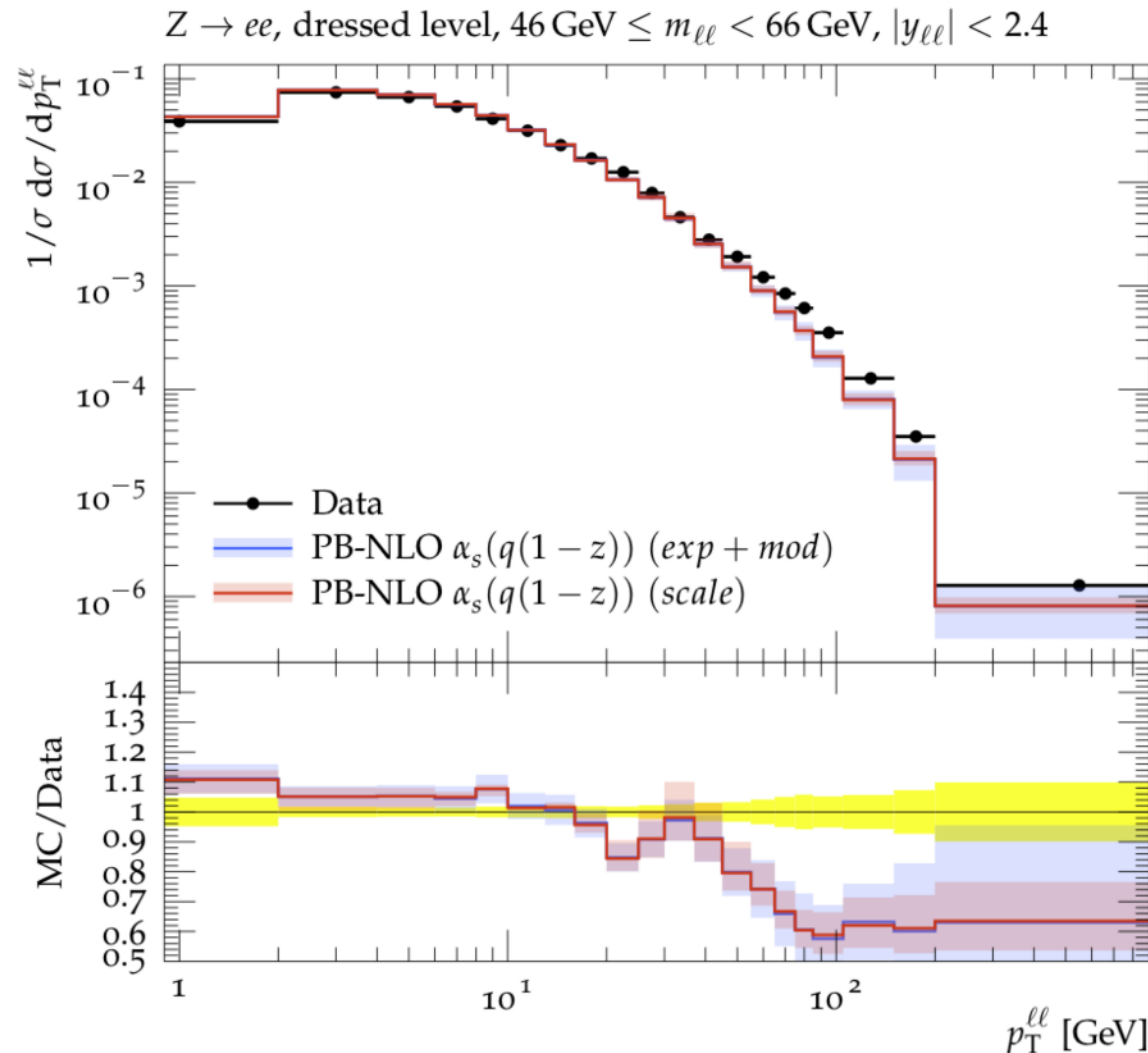
- Goal
 - have a regular discussion on various aspects of calculations involving TMDs
 - progress on understanding TMDs
 - KMR, CCFM, CSS etc
 - issues at higher orders, ordering conditions
 - k_T – dependent splitting functions
 - TMD fits:
 - off-shell ME and Coefficient functions for QCD fits
 - global fits including also jet and DY data
 - calculation tools
 - KaTie for off-shell ME's
 - using collinear NLO packages (POWHEG, MC@NLO)
 - matching conditions, subtraction terms
 - other approaches ?

PB – TMD discussion (II)

- Goal (cont'd)
 - comparison with measurements:
 - measurements at LHC
 - prospects for ep/eA
 - making tools available for general usage:
 - advertising and maintenance of MC programs
 - TMDlib
 - further development ?
 - TMDplotter
 - further development ?
 - what else is needed ?

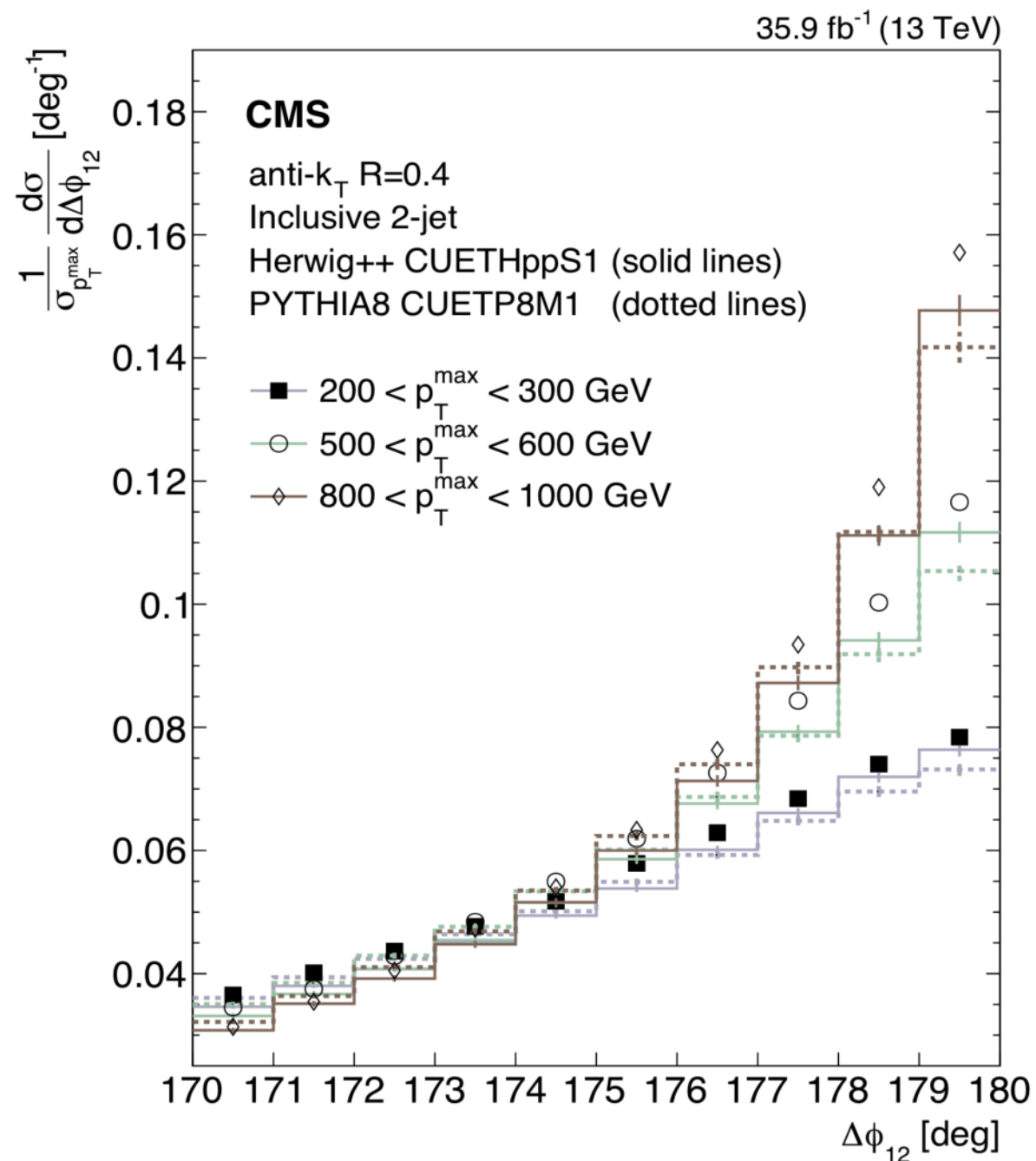
Prospects @ LHC

- Comparison of different approaches for DY and high- p_T dijet production as discussed at REF2018:
 - DY q_T for different masses
 - PB-TMDs with MC@NLO



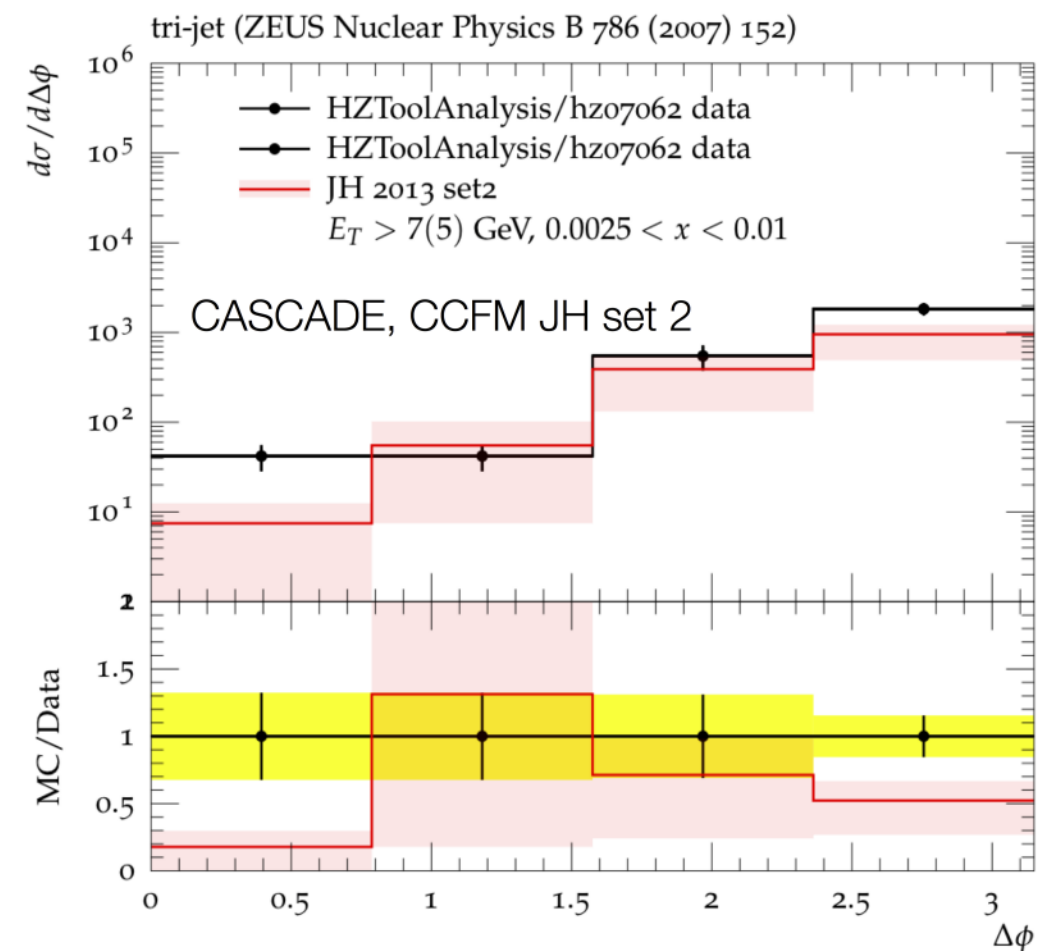
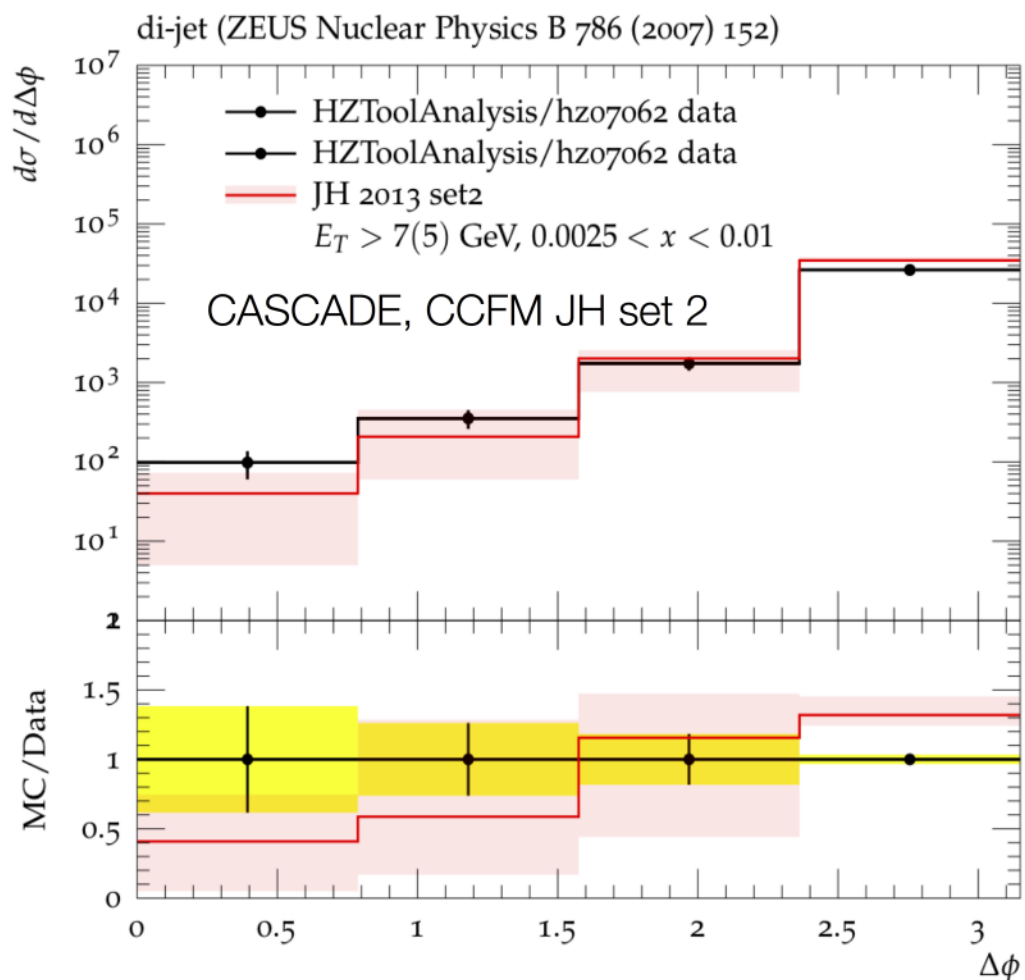
Prospects @ LHC

- Comparison of different approaches for DY and high- p_T dijet production as discussed at REF2018:
 - High p_T dijet production in back-to-back region (CMS: arXiv 1901.xxxxx)



Prospects @ ep/eA (EIC)

- Meeting on MCEGs for future ep and eA facilities, DESY 20 – 22 Feb 2019
 - main focus on TMDs and MC generators
 - can TMDs be used in ep generators
 - how well do they compare with standard calcs
 - KaTie for ep
 - using MC@NLO (not yet working for ep)



Agenda

PB TMD discussion

Thursday, 24 January 2019 from **15:00** to **17:00** (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, 24 January 2019

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|---------------|---|---|
| 15:00 - 15:10 | Intro 10' | ▼ |
| 15:10 - 15:30 | Round Table Intro of different projects 20' | ▼ |
| 15:30 - 16:00 | Discussion 30' | ▼ |