

Cascade group meeting

Conferences & new papers

- EPS conference: <https://indico.desy.de/event/34916/>
 - Abstract deadline: 2 June 2023
 - Proposals:
 - back-to-back correlations (multijet and Zjet)
 - intrinsic kt
 - Global fits for PB TMDs
 - what else can be presented as a group ?
- TMD Handbook [arXiv 2304.03302](https://arxiv.org/abs/2304.03302)
 - Francesco already noted, that back-to-back papers from us were not cited – he contacted the authors

CASCADE news

- new random number generator implemented: [MIXMAX](#)
 - *MIXMAX is the matrix-recursive random number generator introduced by my parents in: On the Monte Carlo Simulation of Physical Systems J.Comput.Phys. 97, 566 (1991)*
 - Can be selected in steering with:
`IRN_SEL = 0 ! selection of random nr Generator: =0 RXLUXGO, =1 MIXMAX`
- Bug in storing TMD uncertainties corrected:
 - too long string was stored, now back to :*"TMD102200"* etc
- New version:
 - 3.3.2 on [git](#) as well as on [CASCADE-hepforge](#)

New papers

- The small k_t region in DY production at NLO with the parton branching method
 - pheno applications, determination of intrinsic k_t
 - determine q_s as fct of m_{DY} at 13 TeV
 - determine q_s as fct of m_{DY} at 8 TeV
- we are performing the final x-checks, paper can be circulated soon !
- This paper is open and will stay open:
 - **Please reply to me**, if you want to be co-author, after reading and commenting

Agenda

CASCADE group meeting



Thursday 20 Apr 2023, 15:00 → 16:30 Europe/Berlin

Description

Please use this [link](#) to connect

15:00 → 15:05 **Intro**

5m

15:05 → 15:25 **Intrinsic kt fit for standard MC generators**

20m

Speaker: Weijie Jin

AOB

- Further news ?