

Proposal for REF2021 at DESY Hamburg



DESY as host for REF 2021

- QCD group at DESY was one of the initiators of the REF workshop series
- QCD group at DESY is active and innovative for TMD development
 - developed and hosts [TMDlib](#) and [TMDplotter](#)
 - developed PB TMDs and PB TMD Monte Carlo simulation in *CASCADE3*
- QCD group at DESY has a huge experience in organizing and running small and large conferences and workshops, among
 - [EDS 2007](#)
 - [MPI 2011](#)
 - [REF in 2015](#)
 - [MC event generators for future ep and eA facilities \(2019\)](#)
 - [Rivet ep preservation meeting 2019](#)

REF2021 at DESY

- Proposed date: 1- 5 November 2021 (no ATLAS, CMS, ALICE, LHCC meetings)
- In-person or online meeting ?
 - depending on general situation, to be discussed and decided with AB
 - we have to act responsible – personal preference: online meeting
 - no travels
 - low costs
 - low threshold for participation, also from countries with low budget

REF2021 at DESY

- Local Organizing Committee (featuring young scientists)
 - Armando Bermudez Martinez
 - Markus Diehl
 - Sasha Glazov (tbc)
 - Hannes Jung
 - Ami Rostomyan
 - Sara Taheri Monfared
 - Qun Wang

REF 2021 DESY

- Topics:
 - TMD phenomenology
 - special emphasis on
 - Monte Carlo generators
 - TMDlib
 - Machine Learning and Quantum Computing for TMDs
 - general tools
 - Applications
 - experimental measurements at present (LHC, Belle...) and future colliders (high lumi LHC, EIC,...)
 - high and low scale processes