

Prospects for extraction of GPDs from global fits of current and future data

Report of Contributions

Contribution ID : 1

Type : **not specified**

Greetings from the NCBJ director

Tuesday, 22 January 2019 09:00 (15)

Presenter(s) : KUREK, Krzysztof

Contribution ID : 2

Type : **not specified**

GPD myths and prospects

Tuesday, 22 January 2019 09:15 (45)

Primary author(s) : MÜLLER, Dieter (Theoretical Physics II, Ruhr-University Bochum)

Presenter(s) : MÜLLER, Dieter (Theoretical Physics II, Ruhr-University Bochum)

Contribution ID : 3

Type : **not specified**

GPDs@EIC

Tuesday, 22 January 2019 10:00 (45)

Elke Caroline Aschenauer

Presenter(s) : ASCHENAUER, Elke-Caroline (BNL)

Contribution ID : 4

Type : **not specified**

Parton distribution functions from Lattice QCD

Tuesday, 22 January 2019 11:05 (45)

In this talk, I will discuss the computation of collinear PDFs in the framework of Lattice QCD, using the so-called quasi-PDF approach introduced by Xiangdong Ji in 2013 and intensively developed thereafter. We employed twisted mass fermions with light quark mass set to its physical value. The relevant matrix elements obtained on the lattice were non-perturbatively renormalized and converted to the \overline{MS} scheme at the scale of 2 GeV. A matching process was applied together with nucleon mass corrections, leading to the reconstruction of light-cone PDFs. We observe a similar behavior between the lattice and phenomenological data, and for both types of polarized PDFs a nice overlap for a range of Bjorken- x values. This presents a major success for the emerging field of direct calculations of quark distributions using Lattice QCD. I will also discuss perspectives for extracting GPDs using a similar approach.

Presenter(s) : CICHY, Krzysztof (Adam Mickiewicz University)

Contribution ID : 5

Type : **not specified**

The need for a computing framework for GPDs

Tuesday, 22 January 2019 11:50 (45)

Presenter(s) : MOUTARDE, Hervé (IRFU, CEA Saclay)

Contribution ID : 6

Type : **not specified**

Mechanical properties of proton based on multipole model

Tuesday, 22 January 2019 13:45 (45)

Presenter(s) : TRAWIŃSKI, Arkadiusz (IRFU, CEA - Saclay)

Contribution ID : 7

Type : **not specified**

Exploring structure and dynamics with GPDs at EIC

Tuesday, 22 January 2019 14:30 (45)

Presenter(s) : WEISS, Christian (JLab)

Contribution ID : 8

Type : **not specified**

Discussion

Tuesday, 22 January 2019 15:35 (480)

Contribution ID : 9

Type : **not specified**

GPDs from meson electroproduction

Wednesday, 23 January 2019 09:00 (45)

Presenter(s) : KROLL, Peter (University of Wuppertal)

Contribution ID : **10**

Type : **not specified**

CLAS12 Deep Virtual ϕ

Wednesday, 23 January 2019 09:45 (45)

Presenter(s) : GIROD-GARD , Francois-Xavier (JLab / UConn)

Contribution ID : 11

Type : **not specified**

On meson production, higher orders, DAs and all that

Wednesday, 23 January 2019 10:50 (45)

Presenter(s) : PASSEK-KUMERIČKI, Kornelija (Institut Ruđer Bošković)

Contribution ID : 12

Type : **not specified**

Beam spin asymmetries from hard exclusive pion electro-production in the deeply virtual region with CLAS and CLAS 12

Wednesday, 23 January 2019 11:35 (45)

Presenter(s) : DIEHL, Stefan (UConn)

Contribution ID : 13

Type : **not specified**

Photoproduction of a large invariant mass photon pair

Wednesday, 23 January 2019 12:20 (25)

Presenter(s) : PEĐRAK, Aleksandra (NCBJ)

Contribution ID : 14

Type : **not specified**

TUTORIAL/DISCUSSION SESSION

Wednesday, 23 January 2019 13:55 (65)

Presenter(s) : SZNAJDER, Paweł (NCBJ)

Contribution ID : 15

Type : **not specified**

TUTORIAL/DISCUSSION SESSION

Wednesday, 23 January 2019 15:20 (190)

Presenter(s) : SZNAJDER, Paweł (NCBJ)

Contribution ID : 16

Type : **not specified**

Models of Distribution Amplitudes and GPDs

Thursday, 24 January 2019 09:00 (45)

Presenter(s) : MEZRAG, Cédric (INFN Roma 1)

Contribution ID : 17

Type : **not specified**

GPDs in high-mass photoproduction

Friday, 25 January 2019 10:50 (45)

Presenter(s) : SZYMANOWSKI, Lech (NCBJ)

Contribution ID : **18**

Type : **not specified**

Some fitting and extraction experiences and status of the GeParD code

Thursday, 24 January 2019 10:50 (45)

Presenter(s) : KUMERIČKI , Krešimir (University of Zagreb)

Contribution ID : **19**

Type : **not specified**

Global analysis of DVCS data

Thursday, 24 January 2019 11:35 (45)

Presenter(s) : SZNAJDER, Pawel (NCBJ)

Contribution ID : 20

Type : **not specified**

A discussion about GPD experiments and Machine Learning

Thursday, 24 January 2019 09:45 (45)

Presenter(s) : DEFURNE, Maxime (CEA-Saclay)

Contribution ID : 21

Type : **not specified**

GPD studies with TCS

Thursday, 24 January 2019 14:15 (45)

Presenter(s) : BOËR, Marie

Contribution ID : **22**

Type : **not specified**

Discussion

Thursday, 24 January 2019 15:20 (480)

Contribution ID : 23

Type : **not specified**

GPD program with Jefferson Lab 12 GeV Upgrade and the Center for Nuclear Femtography

Friday, 25 January 2019 09:00 (45)

Presenter(s) : ELOUADRHIRI, Latifa (JLab)

Contribution ID : 24

Type : **not specified**

Results on deeply virtual exclusive processes from COMPASS

Friday, 25 January 2019 09:45 (45)

Presenter(s) : SANDACZ, Andrzej (NCBJ)

Contribution ID : 25

Type : **not specified**

CANCELLED - Extraction of Observables from Deeply Virtual Exclusive Electron Proton Scattering Experiments

Thursday, 24 January 2019 13:30 (45)

Presenter(s) : LIUTI, Simonetta (University of Virginia)

Contribution ID : 26

Type : **not specified**

Flavor dependence of the GPDs in the large N_c limit

Friday, 25 January 2019 11:35 (45)

Presenter(s) : TEZGIN, Kemal (Uconn)

Contribution ID : 27

Type : **not specified**

Social dinner (optional, self supported)

Wednesday, 23 January 2019 19:00 (90)