Radiative Corrections from medium to high energy experiments

Report of Contributions

Contribution ID: 6 Type: not specified

Welcome and Registration

Monday, 18 July 2022 09:00 (45 minutes)

Primary author: CLINE, Ethan (Stony Brook University, Stony Brook/US)

Presenter: CLINE, Ethan (Stony Brook University, Stony Brook/US)

Session Classification: Morning Session 1

Contribution ID: 7 Type: **not specified**

Why we are here and things that bother me

Monday, 18 July 2022 09:45 (30 minutes)

Primary author: BERNAUER, Jan (Stony Brook University, Stony Brook/US)

Presenter: BERNAUER, Jan (Stony Brook University, Stony Brook/US)

Session Classification: Morning Session 1

Contribution ID: 8 Type: not specified

Current status of the ULQ2 experiment and required corrections

Monday, 18 July 2022 10:15 (45 minutes)

Primary author: LEGRIS, Clement (ELPH, Tohoku University (Japan))

Presenter: LEGRIS, Clement (ELPH, Tohoku University (Japan))

Session Classification: Morning Session 1

Contribution ID: 9 Type: **not specified**

Proton Charge Radius from PRad Experiment at Jefferson Lab

Monday, 18 July 2022 11:00 (45 minutes)

Primary author: GASPARIAN, Ashot (NC A and T State University, NC, USA)

Presenter: GASPARIAN, Ashot (NC A and T State University, NC, USA)

Session Classification: Morning Session 1

Contribution ID: 10 Type: not specified

High-precision QED initial state corrections for $e^+e^- \rightarrow \gamma^*/Z^*$ annihilation

Monday, 18 July 2022 13:30 (45 minutes)

Primary author: BLUEMLEIN, Johannes (DESY)

Presenter: BLUEMLEIN, Johannes (DESY)

Session Classification: Afternoon Session 1

Contribution ID: 11 Type: not specified

corrections for the chiral anomaly reaction pi gamma -> pi pi0

Tuesday, 19 July 2022 09:00 (45 minutes)

Primary author: FRIEDRICH, Jan (TU Munich)

Presenter: FRIEDRICH, Jan (TU Munich)

Session Classification: Morning Session 2

Contribution ID: 12 Type: not specified

Spin effects and two-photon exchange in electron scattering below the second resonance region: an effective theory approach

Monday, 18 July 2022 15:30 (45 minutes)

Primary author: GOITY, Jose (Hampton University and Jefferson Lab)

Presenter: GOITY, Jose (Hampton University and Jefferson Lab)

Session Classification: Afternoon Session 1

Contribution ID: 13 Type: not specified

Discussion

Monday, 18 July 2022 16:15 (45 minutes)

Primary author: CLINE, Ethan (Stony Brook University, Stony Brook/US)

Presenter: CLINE, Ethan (Stony Brook University, Stony Brook/US)

Session Classification: Afternoon Session 1

Contribution ID: 14 Type: not specified

Two-photon exchange, single spin asymmetries, and proton form factors

Thursday, 21 July 2022 11:00 (45 minutes)

Primary author: BLUNDEN, Peter (University of Manitoba)

Presenter: BLUNDEN, Peter (University of Manitoba)

Session Classification: Morning Session 4

Contribution ID: 15 Type: not specified

Electroweak box corrections for precision tests of the Standard Model

Tuesday, 19 July 2022 09:45 (45 minutes)

Primary author: GORSHTEYN, Mikhail (JGU Mainz)

Presenter: GORSHTEYN, Mikhail (JGU Mainz)

Session Classification: Morning Session 2

Contribution ID: 16 Type: not specified

Radiative corrections in Dalitz decays of π^0 , $\eta^{(\prime)}$, K^+ , and Σ^0

Tuesday, 19 July 2022 14:00 (45 minutes)

Primary author: HUSEK, Tomas (Lund University)

Presenter: HUSEK, Tomas (Lund University)

Session Classification: Afternoon Session 2

Contribution ID: 17 Type: not specified

radiative corrections to elastic muon proton scattering at low momentum transfers

Tuesday, 19 July 2022 13:30 (30 minutes)

Primary author: KAISER, Norbert (Technische Universitaet Muenchen)

Presenter: KAISER, Norbert (Technische Universitaet Muenchen)

Session Classification: Afternoon Session 2

Contribution ID: 18 Type: not specified

Radiative Corrections in Super-Rosenbluth Experiments

Tuesday, 19 July 2022 11:00 (45 minutes)

Primary author: SCHMIDT, Axel (George Washington University)

Presenter: SCHMIDT, Axel (George Washington University)

Session Classification: Morning Session 2

Contribution ID: 19 Type: not specified

Elements of QED-NRQED Effective Field Theory: II. Matching of Contact Interactions

Tuesday, 19 July 2022 15:30 (45 minutes)

Primary author: PAZ, Gil

Presenter: PAZ, Gil

Session Classification: Afternoon Session 2

Discussion

Contribution ID: 20 Type: not specified

Discussion

Tuesday, 19 July 2022 16:15 (45 minutes)

Primary author: GILMAN, Ronald (Rutgers University)

Presenter: GILMAN, Ronald (Rutgers University)

Session Classification: Afternoon Session 2

Contribution ID: 21 Type: not specified

Radiative corrections for the MUSE experiment

Wednesday, 20 July 2022 09:00 (45 minutes)

Primary author: STRAUCH, Steffen (University of South Carolina)

Presenter: STRAUCH, Steffen (University of South Carolina)

Session Classification: Morning Session 3

Contribution ID: 22 Type: not specified

Two Photon Exchange at MUSE

Wednesday, 20 July 2022 09:45 (45 minutes)

Primary author: GILMAN, Ronald (Rutgers University)

Presenter: GILMAN, Ronald (Rutgers University)

Session Classification: Morning Session 3

Contribution ID: 23 Type: not specified

Two-photon exchange in Chiral perturbation Theory

Wednesday, 20 July 2022 11:00 (45 minutes)

Primary author: MYHRER, Fred (University of South Carolina)

Presenter: MYHRER, Fred (University of South Carolina)

Session Classification: Morning Session 3

Contribution ID: 24 Type: not specified

Radiative corrections in interactions involving electrons and protons

Wednesday, 20 July 2022 13:30 (45 minutes)

Primary author: TOMASI-GUSTAFSSON, Egle (CEA Saclay)

Presenter: TOMASI-GUSTAFSSON, Egle (CEA Saclay)

Session Classification: Afternoon Session 3

Contribution ID: 25 Type: not specified

Study of radiative corrections for electron-proton scattering at A1 Collaboration

Wednesday, 20 July 2022 14:15 (45 minutes)

Primary author: MIHOVILOVIC, Miha (Jozef Stefan Institute, Faculty of Mathematics and Physics University of Ljubljana)

Presenter: MIHOVILOVIC, Miha (Jozef Stefan Institute, Faculty of Mathematics and Physics University of Ljubljana)

Session Classification: Afternoon Session 3

Contribution ID: 26 Type: not specified

Radiative Corrections in SIDIS

Wednesday, 20 July 2022 15:30 (45 minutes)

Primary author: AKUSHEVICH, Igor (Duke University)

Presenter: AKUSHEVICH, Igor (Duke University)

Session Classification: Afternoon Session 3

Contribution ID: 27 Type: not specified

Discussion

Wednesday, 20 July 2022 16:15 (45 minutes)

Primary author: BERNAUER, Jan (Stony Brook University, Stony Brook/US)

Presenter: BERNAUER, Jan (Stony Brook University, Stony Brook/US)

Session Classification: Afternoon Session 3

Contribution ID: 28 Type: not specified

The McMule framework for NNLO QED calculations

Thursday, 21 July 2022 09:00 (45 minutes)

Primary author: SIGNER, Adrian (PSI / UZH)

Presenter: SIGNER, Adrian (PSI / UZH)

Session Classification: Morning Session 4

Contribution ID: 29 Type: not specified

NNLO results with McMule

Thursday, 21 July 2022 09:45 (45 minutes)

Primary author: ULRICH, Yannick (University of Durham)

Presenter: ULRICH, Yannick (University of Durham)

Session Classification: Morning Session 4

TBD

Contribution ID: 30 Type: not specified

TBD

Session Classification: Morning Session 4

Contribution ID: 31 Type: not specified

Radiative corrections to charged-current neutrino scattering at GeV energies

Thursday, 21 July 2022 13:30 (45 minutes)

Primary author: TOMALAK, Oleksandr (Los Alamos National Laboratory)

Presenter: TOMALAK, Oleksandr (Los Alamos National Laboratory)

Session Classification: Afternoon Session 4

Contribution ID: 32 Type: not specified

Dispersion corrections to elastic electron-nucleus scattering cross sections

Thursday, 21 July 2022 14:15 (45 minutes)

Primary author: JAKUBASSA-AMUNDSEN, Doris (LMU Munich)

Presenter: JAKUBASSA-AMUNDSEN, Doris (LMU Munich)

Session Classification: Afternoon Session 4

Contribution ID: 33 Type: not specified

Radiative corrections for PVDIS, from 6 to 12 GeV (An experimentalist's view)

Thursday, 21 July 2022 15:30 (45 minutes)

Primary author: ZHENG, Xiaochao (University of Virginia (UVa), Charlottesville/US)

Presenter: ZHENG, Xiaochao (University of Virginia (UVa), Charlottesville/US)

Session Classification: Afternoon Session 4

Contribution ID: 34 Type: not specified

Discussion

Thursday, 21 July 2022 16:15 (45 minutes)

Primary author: AFANASEV, Andrei (George Washington University, Washington/US)

Presenter: AFANASEV, Andrei (George Washington University, Washington/US)

Session Classification: Afternoon Session 4

Contribution ID: 35 Type: not specified

Radiative effects in GENIE

Friday, 22 July 2022 09:45 (45 minutes)

Primary author: ASHKENAZI, adi (MIT)

Presenter: ASHKENAZI, adi (MIT)

Session Classification: Morning Session 5

Contribution ID: 36 Type: not specified

Measurement of structure dependent radiative K+ \rightarrow e+vy decays using stopped positive kaons

Friday, 22 July 2022 09:00 (45 minutes)

Primary author: KOHL, Michael (Hampton University)

Presenter: KOHL, Michael (Hampton University)

Session Classification: Morning Session 5

Contribution ID: 37 Type: not specified

Close-Out

Friday, 22 July 2022 11:00 (45 minutes)

Primary author: CLINE, Ethan (Stony Brook University, Stony Brook/US)

Presenter: CLINE, Ethan (Stony Brook University, Stony Brook/US)

Session Classification: Morning Session 5

Contribution ID: 39 Type: not specified

The Two Photon Exchange Experiment

Monday, 18 July 2022 14:15 (45 minutes)

Primary author: CLINE, Ethan (Stony Brook University, Stony Brook/US)

Presenter: CLINE, Ethan (Stony Brook University, Stony Brook/US)

Session Classification: Afternoon Session 1