

Advances in Lattice Gauge Theory 2019

Report of Contributions

Contribution ID: 5

Type: **not specified**

Opening

Monday 22 July 2019 09:30 (30 minutes)

Contribution ID: 9

Type: **not specified**

Implementing the three-particle quantization condition: a progress report

Monday 22 July 2019 11:30 (1 hour)

Presenter: SHARPE, Steve

Session Classification: scattering/spectroscopy

Track Classification: Scattering & spectroscopy

Contribution ID: **10**

Type: **not specified**

Overview of coupled-channel scattering

Wednesday 24 July 2019 11:30 (1 hour)

Presenter: DUDEK, Jozef

Session Classification: scattering/spectroscopy

Track Classification: Scattering & spectroscopy

Contribution ID: 11

Type: **not specified**

Partial wave mixing and rho pi scattering

Thursday 25 July 2019 10:00 (1 hour)

Presenter: THOMAS, Christopher (University of Cambridge)

Session Classification: scattering/spectroscopy

Contribution ID: 12

Type: **not specified**

Stabilised Wilson fermions for QCD

Thursday 8 August 2019 11:30 (1 hour)

Presenter: RAGO, Antonio (University of Plymouth (GB))

Session Classification: scattering/spectroscopy

Contribution ID: 13

Type: **not specified**

Meson interactions at Large Nc

Friday 2 August 2019 11:30 (1 hour)

Presenter: ROMERO-LÓPEZ, Fernando

Session Classification: scattering/spectroscopy

Contribution ID: 15

Type: **not specified**

The b1 resonance from omega pi scattering

Thursday 25 July 2019 11:30 (1 hour)

Presenter: WOSS, Antoni

Session Classification: scattering/spectroscopy

Contribution ID: 16

Type: **not specified**

TH Colloquium: Gradient Flow perturbation theory

Wednesday 24 July 2019 14:00 (1 hour)

Presenter: HARLANDER, Robert

Contribution ID: 17

Type: **not specified**

Quasi PDF as observables

Wednesday 24 July 2019 10:00 (1 hour)

Presenter: DEL DEBBIO, Luigi (The University of Edinburgh (GB))

Session Classification: scattering/spectroscopy

Contribution ID: **18**

Type: **not specified**

Neural network applications to spectral reconstruction

Friday 26 July 2019 11:30 (1 hour)

Presenter: Dr PORTELLI, Antonin (The University of Edinburgh)

Session Classification: scattering/spectroscopy

Contribution ID: **19**

Type: **not specified**

Boosting hotQCD

Tuesday 6 August 2019 09:30 (1 hour)

Presenter: DALLABRIDA, Mattia (Universita & INFN, Milano-Bicocca (IT))

Session Classification: QED+QCD

Contribution ID: 20

Type: **not specified**

Application of the gradient flow to the energy-momentum tensor

Tuesday 6 August 2019 11:00 (1 hour)

Presenter: SUZUKI, Hiroshi

Session Classification: QED+QCD

Contribution ID: 21

Type: **not specified**

Scattering from finite volume spectral functions: status and perspectives

Friday 26 July 2019 10:00 (1 hour)

Presenters: BULAVA, John (University of Southern Denmark); BULAVA, John

Session Classification: scattering/spectroscopy

Contribution ID: 22

Type: **not specified**

The structure of hadronic excitations

Tuesday 30 July 2019 10:00 (1 hour)

Presenter: LEINWEBER, Derek (CSSM, University of Adelaide)

Session Classification: form factors & decays

Contribution ID: 23

Type: **not specified**

Structure and transitions of nucleon excitations via parity-expanded variational analysis

Tuesday 30 July 2019 11:30 (30 minutes)

Presenter: STOKES, Finn (Forschungszentrum Jülich GmbH)

Session Classification: form factors & decays

Contribution ID: 24

Type: **not specified**

$B_c \rightarrow B_{s,d}$ form factors with NRQCD and HISQ bottom quarks

Tuesday 30 July 2019 12:00 (30 minutes)

Presenter: COOPER, Laurence (University of Cambridge)

Session Classification: form factors & decays

Contribution ID: 25

Type: **not specified**

Inclusive B decay structure functions and their decomposition into final states

Wednesday 31 July 2019 11:30 (1 hour)

Presenter: HASHIMOTO, Shoji (KEK)

Session Classification: form factors & decays

Contribution ID: 26

Type: **not specified**

Heavy-to-light decay form factors on $N_f=2+1+1$ HISQ ensembles

Wednesday 31 July 2019 10:00 (1 hour)

Presenter: GAMIZ, Elvira (University of Granada)

Session Classification: form factors & decays

Contribution ID: 27

Type: **not specified**

Semileptonic D to K decay from full lattice QCD with HISQ

Wednesday 31 July 2019 09:30 (30 minutes)

Presenter: CHAKRABORTY, Bipasha (University of Cambridge)

Session Classification: form factors & decays

Contribution ID: 28

Type: **not specified**

Hadronic light-by-light scattering

Thursday 1 August 2019 11:30 (1 hour)

Presenter: GERARDIN, Antoine

Session Classification: form factors & decays

Contribution ID: 29

Type: **not specified**

Status of the HVP contribution to $(g-2)$ from Lattice QCD+QED

Thursday 1 August 2019 09:30 (1 hour)

Presenter: LEHNER, Christoph (BNL)

Session Classification: form factors & decays

Contribution ID: **30**

Type: **not specified**

Pion Scattering to $(g-2)_\mu$ at Physical Pion Mass

Friday 2 August 2019 10:00 (1 hour)

Presenter: MEYER, Aaron (Brookhaven National Laboratory)

Session Classification: scattering/spectroscopy

Contribution ID: 31

Type: **not specified**

K pi scattering and the Kstar

Thursday 8 August 2019 10:00 (1 hour)

Presenter: WILSON, David (Trinity College Dublin)

Session Classification: scattering/spectroscopy

Contribution ID: 32

Type: **not specified**

TH Colloquium: From Scattering Amplitudes to Gravitational Waves

Wednesday 31 July 2019 14:00 (1 hour)

Presenter: BERN, Zvi

Contribution ID: 33

Type: **not specified**

Parton distribution functions from lattice QCD

Wednesday 7 August 2019 11:30 (1 hour)

Presenter: ALEXANDROU, Constantia

Session Classification: QED+QCD

Contribution ID: 34

Type: **not specified**

Finite volume effects in the HVP contribution to muon ($g-2$)

Thursday 1 August 2019 10:30 (30 minutes)

Presenters: PATELLA, Agostino (Humboldt-Universität zu Berlin); PATELLA, Agostino (CERN)

Session Classification: form factors & decays

Contribution ID: 35

Type: **not specified**

Computing isospin breaking corrections in massive QED on the lattice

Monday 5 August 2019 11:30 (1 hour)

Presenters: DELLA MORTE, Michele; DELLA MORTE, Michele (Unknown)

Session Classification: QED+QCD

Contribution ID: 36

Type: **not specified**

Heavy quarks as a tool in non-perturbative renormalization

Wednesday 7 August 2019 10:00 (1 hour)

Primary author: RAMOS, Alberto

Presenters: RAMOS, Alberto; RAMOS MARTINEZ, Alberto (Trinity College Dublin (IE))

Session Classification: QED+QCD

Contribution ID: 37

Type: **not specified**

QED corrections to leptonic meson decays

Monday 5 August 2019 10:00 (1 hour)

Presenter: GUELPERS, Vera (University of Edinburgh)

Session Classification: QED+QCD

Contribution ID: **38**

Type: **not specified**

TH Colloquium: Frontiers in lattice field theory: Calculations of QCD+QED

Wednesday 7 August 2019 14:00 (1 hour)

Presenter: TANTALO, Nazario

Contribution ID: 39

Type: **not specified**

Hadronic structure from the CLS Nf=2+1 ensembles

Monday 29 July 2019 10:00 (1 hour)

Presenter: COLLINS, Sara (University of Regensburg)

Session Classification: form factors & decays

Contribution ID: **40**

Type: **not specified**

Overview over Form Factor calculations

Monday 29 July 2019 11:30 (1 hour)

Presenter: JUETTNER, Andreas

Session Classification: form factors & decays

Contribution ID: 41

Type: **not specified**

Towards a Holographic Description of Cosmology on the Lattice

Tuesday 30 July 2019 15:30 (30 minutes)

Presenter: JUETTNER, Andreas

Contribution ID: 42

Type: **not specified**

Towards neutrinoless double-beta decay from lattice QCD

Tuesday 23 July 2019 10:00 (1 hour)

Presenter: DAVOUDI, Zohreh (University of Maryland)

Session Classification: scattering/spectroscopy

Contribution ID: 43

Type: **not specified**

Electromagnetic form factors and the proton radius

Tuesday 23 July 2019 11:30 (1 hour)

Presenter: GREEN, Jeremy (DESY, Zeuthen)

Session Classification: scattering/spectroscopy

Contribution ID: 44

Type: **not specified**

Three particles in the infinite volume: the ‘ladders and resonances’ approach for the $a_1(1260)$ dynamics

Monday 22 July 2019 10:30 (30 minutes)

Presenter: MIKHASENKO, Mikhail (CERN)

Session Classification: scattering/spectroscopy

Contribution ID: 45

Type: **not specified**

QCD in external magnetic fields

Friday 9 August 2019 11:30 (30 minutes)

Presenter: KOTOV, Andrey

Session Classification: QED+QCD

Contribution ID: 46

Type: **not specified**

Isospin breaking in tau decays for $(g-2)_\mu$

Friday 9 August 2019 10:00 (1 hour)

Presenter: BRUNO, Mattia (CERN)

Session Classification: QED+QCD

Contribution ID: 47

Type: **not specified**

Closing

Friday 9 August 2019 12:00 (30 minutes)

Contribution ID: 49

Type: **not specified**

Introduction to scattering on the lattice

Monday 22 July 2019 10:00 (30 minutes)

Presenter: HANSEN, Maxwell (CERN)

Session Classification: scattering/spectroscopy

Contribution ID: **50**

Type: **not specified**

Discussions

Friday 26 July 2019 14:30 (1h 30m)

Session Classification: Discussion

Contribution ID: 51

Type: **not specified**

Discussion

Tuesday 30 July 2019 16:00 (1 hour)

Session Classification: Discussion