

# **Hadronic physics and heavy quarks on the lattice**

## **Report of Contributions**

Contribution ID: 12

Type: **not specified**

# Non-perturbative step-scaling and its application to heavy quark physics

*Tuesday 4 June 2024 09:30 (45 minutes)*

**Presenter:** KUBERSKI, Simon

**Session Classification:** Presentations

Contribution ID: 13

Type: **not specified**

# The perturbative gradient flow and its applications

*Tuesday 4 June 2024 10:45 (45 minutes)*

**Presenter:** HARLANDER, Robert (Bergische Universitaet Wuppertal)

**Session Classification:** Presentations

Contribution ID: 14

Type: **not specified**

## Heavy quarks in perturbation theory

*Tuesday 4 June 2024 11:30 (45 minutes)*

**Presenter:** MARQUARD, Peter (DESY)

**Session Classification:** Presentations

Contribution ID: 15

Type: **not specified**

# Heavy quark physics with partially-quenched twisted quarks

*Tuesday 4 June 2024 14:00 (45 minutes)*

**Presenter:** HERDOIZA, Gregorio

**Session Classification:** Presentations

Contribution ID: 16

Type: **not specified**

# Non-perturbative decoupling of heavy quarks

*Wednesday 5 June 2024 09:30 (45 minutes)*

**Presenter:** KORZEC, Tomasz

**Session Classification:** Presentations

Contribution ID: 17

Type: **not specified**

## **Charm-quark mass from massive non-perturbative renormalisation scheme RI/mSMOM**

*Wednesday 5 June 2024 10:45 (45 minutes)*

**Presenter:** ERBEN, Felix Benjamin

**Session Classification:** Presentations

Contribution ID: 18

Type: **not specified**

## The H-dibaryon (CANCELLED)

*Wednesday 5 June 2024 11:30 (45 minutes)*

**Presenter:** GREEN, Jeremy (DESY, Zeuthen)

**Session Classification:** Presentations



Contribution ID: 19

Type: **not specified**

## **Scale setting on the (2+1+1)-flavor HISQ ensembles: current status**

*Wednesday 5 June 2024 14:00 (45 minutes)*

**Presenter:** BAZAVOV, Alexei (Michigan State University)

**Session Classification:** Presentations

Contribution ID: 20

Type: **not specified**

## Recent exotic states from LHCb

*Thursday 6 June 2024 09:30 (45 minutes)*

**Presenter:** Prof. MIKHASENKO, Mikhail (Ruhr University Bochum)

**Session Classification:** Presentations

Contribution ID: 21

Type: **not specified**

## **Exotic hadrons with heavy quarks – from exploratory calculations to reliable results**

*Thursday 6 June 2024 10:45 (45 minutes)*

**Presenter:** MOHLER, Daniel (GSI Helmholtzzentrum fuer Schwerionenforschung)

**Session Classification:** Presentations

Contribution ID: 22

Type: **not specified**

## Scalar and tensor charmonium resonances from lattice QCD

*Thursday 6 June 2024 11:30 (45 minutes)*

**Presenter:** WILSON, David (University of Cambridge)

**Session Classification:** Presentations

Contribution ID: 23

Type: **not specified**

## Perturbation theory

*Tuesday 4 June 2024 15:15 (45 minutes)*

**Presenters:** MARQUARD, Peter (DESY); SOMMER, Rainer; HARLANDER, Robert Valentin (Rheinisch Westfaelische Tech. Hoch. (DE))

**Session Classification:** Panel Discussion:

Contribution ID: 24

Type: **not specified**

## Heavy quark cutoff effects

*Tuesday 4 June 2024 16:15 (45 minutes)*

**Presenters:** HERDOIZA, Gregorio; SOMMER, Rainer; KUBERSKI, Simon

**Session Classification:** Panel Discussion:

Contribution ID: 25

Type: **not specified**

## **Near-threshold states in coupled $DD^*$ - $D^*D^*$ scattering from lattice QCD**

*Friday 7 June 2024 09:30 (45 minutes)*

**Presenters:** WHYTE, Travis (Baylor University); WHYTE, Travis

**Session Classification:** Presentations

Contribution ID: 26

Type: **not specified**

# The quenched glueball spectrum from smeared spectral densities

*Friday 7 June 2024 11:35 (25 minutes)*

**Presenters:** SMECCA, Antonio; SMECCA, Antonio

**Session Classification:** Presentations



Contribution ID: 27

Type: **not specified**

## **Spectroscopy of lattice gauge theories from spectral densities**

*Friday 7 June 2024 11:10 (25 minutes)*

**Presenters:** FORZANO, Niccolo (Swansea University); FORZANO, Niccolo' (Universita & INFN, Milano-Bicocca (IT))

**Session Classification:** Presentations

Contribution ID: 28

Type: **not specified**

## **Pion mass dependence in $D\pi$ scattering and the $D_0^*(2300)$ resonance from lattice QCD**

*Friday 7 June 2024 10:45 (25 minutes)*

**Presenter:** YAN, Haobo

**Session Classification:** Presentations

Contribution ID: 29

Type: **not specified**

## **Simulation of Z2 gauge model using Variational Autoregressive Network (VAN). [CANCELLED]**

*Thursday 6 June 2024 14:00 (25 minutes)*

**Presenter:** CHAHAR, Vaibhav

**Session Classification:** Presentations

Contribution ID: **30**

Type: **not specified**

## Notes on distillation profiles

*Thursday 6 June 2024 14:25 (25 minutes)*

**Presenter:** NEUENDORF, Jan-Philip (Universität Münster)

**Session Classification:** Presentations

Contribution ID: **31**

Type: **not specified**

## **Panel: Precision scale setting with $t_0$**

*Wednesday 5 June 2024 15:15 (1h 45m)*

**Presenters:** BAZAVOV, Alexei (Michigan State University); MOHLER, Daniel (GSI Helmholtzzentrum fuer Schwerionenforschung); HERDOIZA, Gregorio; SOMMER, Rainer; COLLINS, Sara; KORZEC, Tomasz

**Session Classification:** Panel Discussion:

Contribution ID: 32

Type: **not specified**

## Panel Discussion

*Thursday 6 June 2024 15:15 (1h 45m)*

**Session Classification:** Panel Discussion: