

QCD at FAIR Workshop 2024



Report of Contributions

Contribution ID: 2

Type: **not specified**

Opening & introduction

Monday, 11 November 2024 14:00 (15 minutes)

Presenter: NERLING, Frank (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Open Plenary session

Contribution ID: 3

Type: **not specified**

Welcome by GSI Management

Monday, 11 November 2024 14:15 (10 minutes)

Presenter: LEIFELS, Yvonne (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Open Plenary session

Contribution ID: 4

Type: **not specified**

"On the origin of hadron mass and structure"

Monday, 11 November 2024 14:25 (30 minutes)

Presenter: ROBERTS, Craig (Nanjing University)

Session Classification: Open Plenary session

Contribution ID: 5

Type: **not specified**

“Limits of hadronic existence. The role of reference measurements in heavy-ion research”

Monday, 11 November 2024 14:55 (30 minutes)

Presenter: STROTH, Joachim (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Open Plenary session

Contribution ID: 6

Type: **not specified**

„Opportunities with hadron beams for light baryon spectroscopy“

Monday, 11 November 2024 15:25 (30 minutes)

Presenter: RÖNCHEN, Deborah (Forschungszentrum Jülich IAS-4)

Session Classification: Open Plenary session

Contribution ID: 7

Type: **not specified**

"Femtoscopy, production, and exotic spectroscopy"

Monday, 11 November 2024 16:30 (30 minutes)

Presenter: ALBALADEJO SERRANO, Miguel (IFIC, U. Valencia)

Session Classification: Open Plenary session

Contribution ID: 8

Type: **not specified**

"Quark-diquark correlations in baryons"

Monday, 11 November 2024 17:00 (30 minutes)

Presenter: EICHMANN, Gernot (University of Graz)

Session Classification: Open Plenary session

Contribution ID: 9

Type: **not specified**

Highlight talk Chapter 4, „Probing final state interactions with femtoscopy”

Monday, 11 November 2024 17:30 (30 minutes)

Presenter: ZBROSZCZYK, Hanna (Warsaw University of Technology(WUT))

Session Classification: Open Plenary session

Contribution ID: **10**

Type: **not specified**

"QCD, EOS and neutron star mergers"

Monday, 11 November 2024 18:00 (30 minutes)

Presenter: BAUSWEIN, Andreas (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Open Plenary session

Contribution ID: 11

Type: **not specified**

“Ideas for Baryon Spectroscopy with Proton Beams at FAIR”

Tuesday, 12 November 2024 09:00 (30 minutes)

Presenter: CREDE, Volker (Florida State University)

Session Classification: Open Plenary session

Contribution ID: 12

Type: **not specified**

"Flavour-exotic pentaquarks and where to find them"

Tuesday, 12 November 2024 09:30 (30 minutes)

Presenter: HÜSKEN, Nils (JGU Mainz)

Session Classification: Open Plenary session

Contribution ID: 13

Type: **not specified**

Highlight talk Chapter 5, "Nucleon Structure: Internal charm and trace anomaly"

Tuesday, 12 November 2024 10:00 (30 minutes)

Presenter: DIEHL, Stefan (Justus-Liebig-Universität Gießen(JULGi))

Session Classification: Open Plenary session

Contribution ID: 14

Type: **not specified**

Chapter 1 + 2

Tuesday, 12 November 2024 11:00 (15 minutes)

Presenters: ROBERTS, Craig (Nanjing University); NERLING, Frank (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); MESSCHENDORP, Johan (GSI Helmholtzzentrum für Schwerionenforschung GmbH); GALATYUK, Tetyana (TU Darmstadt / GSI)

Session Classification: Closed Plenary session

Contribution ID: 15

Type: **not specified**

Chapter 3

Tuesday, 12 November 2024 11:15 (15 minutes)

Presenter: CREDE, Volker (Florida State University)

Session Classification: Closed Plenary session

Contribution ID: 16

Type: **not specified**

Chapter 4

Tuesday, 12 November 2024 11:30 (15 minutes)

Presenters: BLUME, Christoph (Goethe-Universität Frankfurt(Uffm-IKP)); HANHART, Christoph (IAS Forschungszentrum Jülich)

Session Classification: Closed Plenary session

Contribution ID: 17

Type: **not specified**

Chapter 5

Tuesday, 12 November 2024 11:45 (15 minutes)

Presenters: FISCHER, Christian (JLU Giessen); Prof. SALABURA, Piotr (Jagiellonian University)

Session Classification: Closed Plenary session

Contribution ID: **18**

Type: **not specified**

Chapter 6

Tuesday, 12 November 2024 12:00 (15 minutes)

Presenters: DOBBS, Sean (Florida State University(FSU)); BRAMBILLA, nora (tum)

Session Classification: Closed Plenary session

Contribution ID: 19

Type: **not specified**

Chapter 7

Tuesday, 12 November 2024 12:15 (15 minutes)

Presenters: BRATKOVSKAYA, Elena (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); AICHE-LIN, Joerg (IMT Atlantique(IMT)); LORENZ, Manuel (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Closed Plenary session

Contribution ID: 20

Type: **not specified**

Chapter 8

Tuesday, 12 November 2024 12:30 (15 minutes)

Presenters: KAMPERT, Karl-Heinz (Bergische Universität Wuppertal(BUW)); SAITO, Takehiko (RIKEN and GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Closed Plenary session

Contribution ID: 21

Type: **not specified**

Chapter 9

Tuesday, 12 November 2024 12:45 (15 minutes)

Presenters: STURM, Christian (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); RITMAN, James (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Closed Plenary session

Contribution ID: 22

Type: **not specified**

“The physics reach of AMBER”

Wednesday, 13 November 2024 09:30 (30 minutes)

Presenter: BRINKMANN, Kai-Thomas (Uni-Bonn(HISKP))

Session Classification: Open Plenary session

Contribution ID: 23

Type: **not specified**

"WASA@FRS: past and present of nuclear and hadron physics experiments at FRS"

Wednesday, 13 November 2024 09:00 (30 minutes)

Presenters: SCHEIDENBERGER, Christoph (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); Dr RAPPOLD, Christophe (Instituto de Estructura de la Materia - CSIC)

Session Classification: Open Plenary session

Contribution ID: 24

Type: **not specified**

"Opportunities for Antiproton Physics with COSY at FAIR"

Wednesday, 13 November 2024 10:00 (30 minutes)

Presenter: PETERS, Klaus (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Open Plenary session

Contribution ID: 25

Type: **not specified**

Highlight talk Chapter 6 (tbd)

Session Classification: Closed Plenary session

Contribution ID: 26

Type: **not specified**

Highlight talk Chapter 7

Presenter: LORENZ, Manuel (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Closed Plenary session

Contribution ID: 27

Type: **not specified**

Highlight talk Chapter 8 (tbd)

Session Classification: Closed Plenary session

Contribution ID: 28

Type: **not specified**

"Charm @ FAIR"

Thursday, 14 November 2024 09:30 (30 minutes)

Presenter: SZCZUREK, Antoni

Session Classification: Open Plenary session

Contribution ID: 29

Type: **not specified**

Highlight talk Chapter 9, "First simulation results for pp→pp J/ψ with CbmRoot"

Thursday, 14 November 2024 10:00 (30 minutes)

Presenter: ROY, Shreya (Ruprecht-Karls-Universität Heidelberg(U_HD_PHYS))

Session Classification: Open Plenary session

Contribution ID: **30**

Type: **not specified**

Chapter 1 + 2

Session Classification: Closed Plenary session

Contribution ID: **31**

Type: **not specified**

Chapter 3

Thursday, 14 November 2024 11:00 (15 minutes)

Presenter: CREDE, Volker (Florida State University (FSU))

Session Classification: Closed Plenary session

Contribution ID: 32

Type: **not specified**

Chapter 4

Thursday, 14 November 2024 11:15 (15 minutes)

Presenters: BLUME, Christoph (Goethe-Universität Frankfurt(Uffm-IKP)); HANHART, Christoph (IAS Forschungszentrum Jülich)

Session Classification: Closed Plenary session

Contribution ID: 33

Type: **not specified**

Chapter 5

Thursday, 14 November 2024 11:30 (15 minutes)

Presenters: FISCHER, Christian (JLU Giessen); SALABURA, Piotr (Jagiellonian University)

Session Classification: Closed Plenary session

Contribution ID: 34

Type: **not specified**

Chapter 6

Thursday, 14 November 2024 11:45 (15 minutes)

Presenters: DOBBS, Sean (Florida State University(FSU)); BRAMBILLA, nora (tum)

Session Classification: Closed Plenary session

Contribution ID: 35

Type: **not specified**

Chapter 7

Thursday, 14 November 2024 12:00 (15 minutes)

Presenters: BRATKOVSKAYA, Elena (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); AICHE-LIN, Joerg (IMT Atlantique(IMT)); LORENZ, Manuel (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Closed Plenary session

Contribution ID: 36

Type: **not specified**

Chapter 8

Thursday, 14 November 2024 12:15 (15 minutes)

Presenters: KAMPERT, Karl-Heinz (Bergische Universität Wuppertal(BUW)); SAITO, Takehiko (RIKEN and GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Closed Plenary session

Contribution ID: 37

Type: **not specified**

Chapter 9

Thursday, 14 November 2024 12:30 (10 minutes)

Presenters: STURM, Christian (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); RITMAN, James (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Closed Plenary session

Contribution ID: **38**

Type: **not specified**

Concluding remarks

Thursday, 14 November 2024 12:40 (10 minutes)

Presenter: MESSCHENDORP, Johan (GSI Helmholtzzentrum für Schwerionenforschung GmbH)

Session Classification: Closed Plenary session

Contribution ID: 39

Type: **not specified**

"News on open-flavor tetraquarks from LHCb"

Wednesday, 13 November 2024 11:00 (30 minutes)

Presenter: MIKHASENKO, Mikhail

Session Classification: Open Plenary session

Contribution ID: 40

Type: **not specified**

Highlight talk Chapter 7, "Matter"

Wednesday, 13 November 2024 11:30 (30 minutes)

Presenter: LORENZ, Manuel (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Open Plenary session

Contribution ID: 41

Type: **not specified**

Highlight talk Chapter 8, "High energy fragmentation reaction and its importance for the galaxy's structure"

Wednesday, 13 November 2024 12:00 (30 minutes)

Presenter: Prof. SAITO, Takehiko (RIKEN and GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Open Plenary session

Contribution ID: 42

Type: **not specified**

Highlight talks Chapter 6

Session Classification: Open Plenary session