

ONLINE | Spin and Hydrodynamics in Relativistic Nuclear Collisions

Report of Contributions

Contribution ID: 2

Type: **not specified**

Experimental overview of spin polarization signatures

Presenters: VOLOSHIN, Sergei; NIIDA, Takafumi

Session Classification: Chair Francesco Becattini | a short opening

Contribution ID: 3

Type: **not specified**

Experimental overview of spin polarization signatures

Monday 5 October 2020 14:00 (1 hour)

Chair: Wojciech Florkowski

Presenter: NIIDA, Takafumi

Contribution ID: 4

Type: **not specified**

Vector meson spin alignment

Monday 5 October 2020 15:15 (45 minutes)

Chair: Wojciech Florkowski

Presenter: XIA, Xiao-Liang (Fudan University)

Contribution ID: 5

Type: **not specified**

Review of polarization at NICA energies

Monday 5 October 2020 16:00 (45 minutes)

Chair: Wojciech Florkowski

Presenter: IVANOV, Yuri (Joint Institute for Nuclear Research)

Contribution ID: 6

Type: **not specified**

Review of hydrodynamic calculations of spin polarization

Tuesday 6 October 2020 14:00 (1 hour)

Chair: Jinfeng Liao

Presenter: KARPENKO, Iurii (Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague)

Contribution ID: 7

Type: **not specified**

Kinetic calculations of polarization

Tuesday 6 October 2020 16:00 (45 minutes)

Chair: Jinfeng Liao

Presenter: SUN, Yifeng (INFN-LNS Catania)

Contribution ID: 8

Type: **not specified**

Effects of hadronic interactions in Lambda polarization

Tuesday 6 October 2020 15:15 (45 minutes)

Chair Jinfeng Liao

Presenter: XIE, Yilong (China Univerisity of Geosciences (Wuhan))

Contribution ID: 9

Type: **not specified**

Spin, polarization and Wigner function

Wednesday 7 October 2020 14:00 (1 hour)

Chair: Francesco Becattini

Presenter: TINTI, Leonardo (Goethe-Universität Frankfurt am Main)

Contribution ID: **10**

Type: **not specified**

Exact formulae for Wigner functions at equilibrium

Wednesday 7 October 2020 15:15 (45 minutes)

Chair: Francesco Becattini

Presenter: PALERMO, Andrea (Università degli studi di Firenze)

Contribution ID: 11

Type: **not specified**

Quantum features of acceleration and vorticity in relativistic hydrodynamics

Wednesday 7 October 2020 16:00 (45 minutes)

Chair: Francesco Becattini

Presenter: PROKHOROV, Georgy (Joint Institute for Nuclear Research, Dubna)

Contribution ID: 12

Type: **not specified**

Review of the Chiral Magnetic Effect

Thursday 8 October 2020 14:00 (1 hour)

Chair: Dirk Rischke

Presenter: LIAO, Jinfeng

Contribution ID: 13

Type: **not specified**

Spin and axial chemical potential

Thursday 8 October 2020 15:15 (45 minutes)

Chair: Dirk Rischke

Presenter: BUZZEGOLI, Matteo (Dip. di Fisica, Univerisità di Firenze)

Contribution ID: 14

Type: **not specified**

Holographic description of spin flow

Thursday 8 October 2020 16:00 (45 minutes)

Chair: Dirk Rischke

Presenter: GURSOY, Umut

Contribution ID: 15

Type: **not specified**

Review of spin polarization in microscopic models

Friday 9 October 2020 14:00 (1 hour)

Chair: Amaresh Jaiswal

Presenter: WANG, Qun (University of Science and Technology of China, Hefei/AnHui)

Contribution ID: **16**

Type: **not specified**

Spin diffusion in perturbative QCD

Friday 9 October 2020 15:15 (45 minutes)

Chair: Amaresh Jaiswal

Presenter: YEE, Ho-Ung (University of Illinois, Chicago)

Contribution ID: 17

Type: **not specified**

Spin dynamics in RTA

Friday 9 October 2020 16:00 (45 minutes)

Chair: Amaresh Jaiswal

Presenter: KUMAR, Avdhesh (National Institute of Science Education and Research, Bhubaneswar/India)

Contribution ID: **18**

Type: **not specified**

Polarization and resonance decays

Friday 9 October 2020 16:45 (45 minutes)

Chair: Amaresh Jaiswal

Presenter: CAO, Gaoqing

Contribution ID: **19**

Type: **not specified**

The role of spin tensor in spin hydrodynamics

Monday 12 October 2020 14:00 (1 hour)

Chair: Xu-Guang Huang

Presenter: SPERANZA, Enrico (Goethe University Frankfurt)

Contribution ID: 20

Type: **not specified**

Entropy current analysis of spin hydrodynamics

Monday 12 October 2020 15:15 (45 minutes)

Chair: Xu-Guang Huang

Presenter: HONGO, Masaru

Contribution ID: **21**

Type: **not specified**

Spin hydrodynamics from kinetic theory

Monday 12 October 2020 16:00 (45 minutes)

Chair: Xu-Guang Huang

Presenter: SHI, Shuzhe (McGill University, Montreal/Canada)

Contribution ID: 22

Type: **not specified**

Review of spin and hydrodynamics

Tuesday 13 October 2020 14:00 (1 hour)

Chair: Yuri Ivanov

Presenter: RYBLEWSKI, Radoslaw (The Henryk Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences, Krakov)

Contribution ID: 23

Type: **not specified**

Spin dynamics in equal-time kinetic theory

Tuesday 13 October 2020 15:15 (45 minutes)

Chair: Yuri Ivanov

Presenter: WANG, Ziyue (Tsinghua University, Beijing/China)

Contribution ID: 24

Type: **not specified**

Spin hydrodynamics from effective theory

Tuesday 13 October 2020 16:00 (45 minutes)

Chair: Yuri Ivanov

Presenter: LIU, Yu-Chen (Fudan University)

Contribution ID: 25

Type: **not specified**

Spin 1 kinetic theory

Tuesday 13 October 2020 16:45 (45 minutes)

Chair: Yuri Ivanov

Presenter: SADOFYEV, Andrey (USC,Santiago de Compostela)

Contribution ID: 26

Type: **not specified**

Extreme matter in electromagnetic fields and under rotation

Wednesday 14 October 2020 14:00 (1 hour)

Chair: Ho-Ung Yee

Presenter: FUKUSHIMA, Kenji

Contribution ID: 27

Type: **not specified**

Relativistic magneto-hydrodynamics in heavy ion collisions

Wednesday 14 October 2020 15:15 (45 minutes)

Chair: Ho-Ung Yee

Presenter: INGHIRAMI, Gabriele (GSI, Darmstadt)

Contribution ID: **28**

Type: **not specified**

MHD from QED

Wednesday 14 October 2020 16:00 (45 minutes)

Chair: Ho-Ung Yee

Presenter: HATTORI, Koichi (Yukawa Institute for Theoretical Physics, Kyoto University)

Contribution ID: 29

Type: **not specified**

Review of quantum kinetic theory for spin transport

Thursday 15 October 2020 14:00 (1 hour)

Chair: Qun Wang

Presenter: YANG, Di-Lun

Contribution ID: **30**

Type: **not specified**

Spin polarization from vorticity through nonlocal collisions

Thursday 15 October 2020 15:15 (45 minutes)

Chair: Qun Wang

Presenter: WEICKGENANNT, Nora

Contribution ID: 31

Type: **not specified**

Kadanoff-Baym approach to the non-local collision term

Thursday 15 October 2020 16:00 (45 minutes)

Chair: Qun Wang

Presenter: SHENG, Xin-Li

Contribution ID: 32

Type: **not specified**

Spin equilibration in kinetic approach

Thursday 15 October 2020 16:45 (45 minutes)

Chair: Qun Wang

Presenter: KAPUSTA, Joe

Contribution ID: 33

Type: **not specified**

Spin transport in condensed matter physics

Friday 16 October 2020 14:00 (1 hour)

Chair: Kenji Fukushima

Presenter: MATSUO , Mamoru

Contribution ID: 34

Type: **not specified**

Polarization rotation of chiral fermions in vortical fluids

Friday 16 October 2020 15:15 (45 minutes)

Chair: Kenji Fukushima

Presenter: LIN, Shu

Contribution ID: 35

Type: **not specified**

Lagrangian approach to spin hydrodynamics

Friday 16 October 2020 16:00 (45 minutes)

Chair: Kenji Fukushima

Presenter: TORRIERI, Giorgio (Unicamp Brazil)

Contribution ID: **36**

Type: **not specified**

Spin 1 kinetic theory

Chair: Francesco Becattini

Presenter: SADOFYEV, Andrey (USC,Santiago de Compostela)

Contribution ID: 37

Type: **not specified**

Round table discussion