New Development of Hydrodynamics and its applications in Heavy-ion Collisions

Report of Contributions

Contribution ID : **23** Type : **not specified**

Opening speech

Wednesday, 30 October 2019 09:00 (10)

Presenter(s) : Prof. SHEN, Hao (Institute of Modern Physics, Fudan University)

Contribution ID : **24** Type : **not specified**

Polarization of fermions at local thermodynamic equilibrium

Wednesday, 30 October 2019 09:10 (40)

Presenter(s) : Prof. BECATTINI, Francesco

Contribution ID : **25** Type : **not specified**

Polarization effects in heavy-ion collisions

Presenter(s) : Prof. WANG, Qun

Contribution ID : **26** Type : **not specified**

Electric conductivity of hot and dense quark matter in a magnetic field

Wednesday, 30 October 2019 09:50 (40)

Presenter(s) : YOSHIMASA HIDAKA

Contribution ID : **27** Type : **not specified**

Relativistic magnetohydrodynamics

Wednesday, 30 October 2019 11:00 (25)

Presenter(s) : KOICHI HATTORI

Contribution ID : **28** Type : **not specified**

Anomaly matching for chiral transport phenomena

Wednesday, 30 October 2019 11:25 (25)

Presenter(s) : Dr MASARU HONGO

Contribution ID : **29** Type : **not specified**

Local Lambda polarization

Wednesday, 30 October 2019 11:50 (25)

Presenter(s) : Dr XIA, Xiao-Liang

Contribution ID : **30** Type : **not specified**

The decomposition and the interpretation of the orbital and the spin angular momenta

Wednesday, 30 October 2019 14:00 (40)

Presenter(s) : Prof. KENJI FUKUSHIMA

Contribution ID : **31** Type : **not specified**

Chiral kinetic theory from Landau level basis

Wednesday, 30 October 2019 14:40 (40)

Presenter(s) : Prof. LIN, Shu

Contribution ID : **32** Type : **not specified**

Chiral magnetohydrodynamic turbulence in supernovae

Wednesday, 30 October 2019 15:20 (40)

Presenter(s) : Dr NAOKI YAMAMOTO

Contribution ID : **33** Type : **not specified**

Coffee break

Contribution ID : **34** Type : **not specified**

Axial kinetic theory and spin transport for relativistic fermions

Wednesday, 30 October 2019 16:30 (25)

Presenter(s) : Dr DI-LUN YANG

Contribution ID : **35** Type : **not specified**

Kinetic theory for massive spin-1/2 particles from the Wigner-function formalism

Wednesday, 30 October 2019 16:55 (25)

Presenter(s) : NORA WEICKGENANNT

Contribution ID : **36** Type : **not specified**

Axial Ward identity in a thermal background

Wednesday, 30 October 2019 17:20 (25)

Presenter(s) : XIN-LI SHENG

Contribution ID : **37** Type : **not specified**

Quantum kinetic theory and spin polarization for Dirac fermions

Wednesday, 30 October 2019 17:45 (25)

Presenter(s) : Mr LIU, Yu-Chen

Contribution ID : **38** Type : **not specified**

Recent Results from BES-I

Thursday, 31 October 2019 08:50 (40)

Presenter(s) : Prof. XU, Nu

Contribution ID : **39** Type : **not specified**

Polarization effects in heavy-ion collisions

Thursday, 31 October 2019 09:30 (40)

Presenter(s) : Prof. WANG, Qun

Contribution ID : **40** Type : **not specified**

Fluctuations in hydrodynamic models

Thursday, 31 October 2019 10:10 (40)

Presenter(s) : Prof. TETSUFUMI HIRANO

Contribution ID : **41** Type : **not specified**

A generalized fluctuation-dissipation theorem in stochastic hydrodynamics and its application

Thursday, 31 October 2019 11:20 (25)

Presenter(s) : Dr CHAO, Jingyi

Contribution ID : **42** Type : **not specified**

Modification to fluctuation-dissipation relation and fluctuation-theorem

Thursday, 31 October 2019 11:45 (25)

Presenter(s) : Dr KOICHI MURASE

Contribution ID : **43** Type : **not specified**

Effects of hydrodynamic fluctuations and initial longitudinal fluctuations on rapidity decorrelation

Thursday, 31 October 2019 12:10 (25)

Presenter(s) : Ms AZUMI SAKAI

Contribution ID : **44** Type : **not specified**

Primordial non-Gaussianity in heavy-ion collisions

Thursday, 31 October 2019 14:00 (40)

Presenter(s) : Prof. OLLITRAULT, Jean-Yves

Contribution ID : **45** Type : **not specified**

Sound and diffusion, signifying multiscale dynamics of hydrodynamic fluctuations

Thursday, 31 October 2019 14:40 (40)

Presenter(s) : Dr YIN, Yi

Contribution ID : **46** Type : **not specified**

Hydrodynamics and thermalization in heavy-ion collisions

Thursday, 31 October 2019 15:20 (40)

Presenter(s) : Mr DU, Lipei

Contribution ID : **47** Type : **not specified**

Anomalous Magneto-hydrodynamics with chiral magnetic effects

Thursday, 31 October 2019 16:30 (25)

Presenter(s) : Prof. PU, Shi

Contribution ID : **48** Type : **not specified**

Chiral kinetic theory in curved spacetime

Thursday, 31 October 2019 16:55 (25)

Presenter(s) : KAZUYA MAMEDA

Contribution ID : **49** Type : **not specified**

Zilch currents and chiral kinetic theory for vector particles

Thursday, 31 October 2019 17:20 (25)

Presenter(s) : ENRICO SPERANZA

Contribution ID : **50** Type : **not specified**

Formulation of relativistic spin hydrodynamics based on entropy current anlysis

Thursday, 31 October 2019 17:45 (25)

Presenter(s) : HIDETOSHI TAYA

Contribution ID : **51** Type : **not specified**

Original of collectivity from large to small systems - lessons, puzzles and opportunities

Friday, 1 November 2019 08:50 (40)

Presenter(s) : Prof. LI, Wei

Contribution ID : **52** Type : **not specified**

From large to small systems: collective and novel QCD effects

Friday, 1 November 2019 09:30 (40)

Presenter(s) : Prof. PANOS CHRISTAKOGLOU

Contribution ID : **53** Type : **not specified**

Pushing the relativistic fluid dynamics to challenging environments

Friday, 1 November 2019 10:10 (40)

Presenter(s) : Prof. SHEN, Chun

Contribution ID : **54** Type : **not specified**

Studies of collective effects at the LHC with the balance function for identified particles

Friday, 1 November 2019 11:20 (25)

Presenter(s) : Ms ZHANNA KHABANOVA

Contribution ID : **55** Type : **not specified**

Longitudinal hydrodynamic response in heavy-ion collisions

Friday, 1 November 2019 11:45 (25)

Presenter(s) : Dr LI, Hui

Contribution ID : **56** Type : **not specified**

Probing the partonic degree of freedom in high multiplicity p-Pb at s^1/2=5.02 TeV collisions

Friday, 1 November 2019 12:10 (25)

Presenter(s) : Mr ZHAO, Wenbin

Contribution ID : **57** Type : **not specified**

Perfect fluid dynamics of particle with spin 1/2

Friday, 1 November 2019 14:00 (40)

Presenter(s) : Prof. WOJCIECH FLORKOWSKI

Contribution ID : **58** Type : **not specified**

Hydrodynamic attractors, initial state energy and particle production in relativistic nuclear collisions

Friday, 1 November 2019 14:40 (40)

Presenter(s) : Dr ALEKSAS MAZELIAUSKAS

Contribution ID : **59** Type : **not specified**

Exact hydrodynamic attractor of an ultrarelativistic gas of hard spheres

Friday, 1 November 2019 15:20 (40)

Presenter(s) : Prof. GABRIEL DENICOL

Contribution ID : **60** Type : **not specified**

Adiabatic hydrodynamization in rapidly-expanding quark-gluon plasma

Friday, 1 November 2019 16:30 (25)

Presenter(s) : Ms BREWER, Jasmine

Contribution ID : **61** Type : **not specified**

Dynamical systems and nonlinear transient rheology of the far-from-equilibrium Bjorken flow

Friday, 1 November 2019 16:55 (25)

Presenter(s) : SYO KAMATA

Contribution ID : **62** Type : **not specified**

Analytical solutions and attractors of relativistic dissipative hydrodynamics for Bjorken flow

Friday, 1 November 2019 17:20 (25)

Presenter(s) : SUNIL JAISWAL

Contribution ID : **63** Type : **not specified**

Chiral and charged pion condensation in magnetic field with rotation.

Friday, 1 November 2019 17:45 (25)

Presenter(s) : Mr HAO-LEI CHEN

Contribution ID : **64** Type : **not specified**

Fluctuations in relativistic fluids, QCD critical point, and Hydro+

Saturday, 2 November 2019 08:50 (40)

Presenter(s) : Prof. MISHA STEPHANOV

Contribution ID : **65** Type : **not specified**

Emergence of hydrodynamic behaviour in expanding ultra-relativistic plasmas

Saturday, 2 November 2019 09:30 (40)

Presenter(s) : Prof. BLAIZOT, Jean-Paul

Contribution ID : **66** Type : **not specified**

Centrality fluctuation in heavy-ion collisions

Saturday, 2 November 2019 10:10 (40)

Presenter(s) : Prof. JIA, Jiangyong

Contribution ID : **67** Type : **not specified**

Hadron chemistry from dynamical core-corona initialization

Saturday, 2 November 2019 11:45 (25)

Presenter(s) : YUUKA KANAKUBO

Contribution ID : **68** Type : **not specified**

Inelastic meson-meson scattering in hadronic matter

Saturday, 2 November 2019 12:10 (25)

Presenter(s) : Prof. XIAO-MING XU

Contribution ID : **69** Type : **not specified**

Spin polarizations in a covariant angular momentum conserved chiral transport model

Presenter(s) : Dr SHUAI, Liu

Contribution ID : **70** Type : **not specified**

Spin polarizations in a covariant angular momentum conserved chiral transport model

Wednesday, 30 October 2019 12:15 (25)

Presenter(s) : Dr LIU, Shuai

Contribution ID : **71** Type : **not specified**

Collective flow in large and small systems

Saturday, 2 November 2019 11:20 (25)

Presenter(s) : Prof. SONG, Huichao