

Challenges to Transport Theory for Heavy-Ion Collisions



Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Monday 20 May 2019 10:00 (15 minutes)

Presenter: COLONNA, Maria (INFN-LNS)

Contribution ID: 2

Type: **not specified**

Overview of code evaluation project

Monday 20 May 2019 10:15 (40 minutes)

Presenter: WOLTER, Hermann (University of Munich)

Session Classification: Session

Contribution ID: 3

Type: **not specified**

Benchmark calculations for heavy-ion collisions

Monday 20 May 2019 11:25 (30 minutes)

Presenter: LEIFELS, Yvonne (GSI)

Session Classification: Session

Contribution ID: 4

Type: **not specified**

Hadronic transport theory and extensions

Monday 20 May 2019 11:55 (40 minutes)

Presenter: Prof. AICHELIN, Jörg (SUBATECH)

Session Classification: Session

Contribution ID: 5

Type: **not specified**

Density fluctuations and fragment formation in the Fermi Energy domain

Presenter: Prof. BORDERIE, Bernard (GANIL)

Contribution ID: 6

Type: **not specified**

Density fluctuations and fragment formation in the Fermi Energy domain

Monday 20 May 2019 14:30 (40 minutes)

Presenter: BORDERIE, Bernard (GANIL)

Session Classification: Session

Contribution ID: 7

Type: **not specified**

Correlations, fluctuations, and fragment formation in transport models

Monday 20 May 2019 15:10 (40 minutes)

Presenter: ZHANG, Feng-Shou (BNU)

Session Classification: Session

Contribution ID: 8

Type: **not specified**

Fluctuations in Boltzmann-Langevin large-amplitude dynamics

Monday 20 May 2019 16:20 (30 minutes)

Presenter: NAPOLITANI, Paolo (CNRS / IN2P3 / IPN)

Session Classification: Session

Contribution ID: 9

Type: **not specified**

Sequential clustering in transport dynamics

Monday 20 May 2019 16:50 (25 minutes)

Presenter: LE FEVRE, Arnaud (GSI)

Session Classification: Session

Contribution ID: **10**

Type: **not specified**

Mechanisms of fragment emission in HI collisions and spallation

Monday 20 May 2019 17:15 (25 minutes)

Presenter: SU, Jun (Sun Yat-Sen University)

Session Classification: Session

Contribution ID: **11**

Type: **not specified**

Discussion: Fluctuation and fragmentation

Presenter: TRAUTMANN, Wolfgang (GSI)

Session Classification: Session

Contribution ID: 12

Type: **not specified**

Investigations of the decomposition of dilute matter

Tuesday 21 May 2019 09:00 (25 minutes)

Presenter: HAGEL, Kris (Texas A&M)

Session Classification: Session

Contribution ID: 13

Type: **not specified**

Generalized density functionals with clusters for transport theory

Tuesday 21 May 2019 09:25 (40 minutes)

Presenter: DANIELEWICZ, Pawel (NSCL/MSU)

Session Classification: Session

Contribution ID: 14

Type: **not specified**

The light cluster yield ratios and nuclear matter parameters in transport model simulations

Tuesday 21 May 2019 10:05 (30 minutes)

Presenter: ZHANG, Yingxun (CIAE)

Session Classification: Session

Contribution ID: 15

Type: **not specified**

Cluster effects on the symmetry energy at low density

Tuesday 21 May 2019 11:05 (40 minutes)

Presenter: CHEN, Lie-Wen (Shanghai Jiao Tong University)

Session Classification: Session

Contribution ID: 16

Type: **not specified**

Clusters in nuclear matter and nuclei

Tuesday 21 May 2019 11:45 (30 minutes)

Presenter: TYPEL, Stefan (IKP, TU Darmstadt)

Session Classification: Session

Contribution ID: 17

Type: **not specified**

Pauli and cluster correlations

Tuesday 21 May 2019 14:30 (30 minutes)

Presenter: ONO, Akira (Tohoku University)

Session Classification: Session

Contribution ID: **18**

Type: **not specified**

Short-range correlations in transport theories

Tuesday 21 May 2019 15:00 (25 minutes)

Presenter: YONG , Gao-Chan (Institute of Modern Physics, CAS)

Session Classification: Session

Contribution ID: 19

Type: **not specified**

Challenges in particle-particle correlation measurements

Tuesday 21 May 2019 15:25 (30 minutes)

Presenter: VERDE, Giuseppe (INFN Catania)

Session Classification: Session

Contribution ID: 20

Type: **not specified**

Clusters and correlations in dense matter

Tuesday 21 May 2019 16:25 (25 minutes)

Presenter: RÖPKE, Gerd (University of Rostock)

Session Classification: Session

Contribution ID: 21

Type: **not specified**

Correlations and fluctuations in CoQMD

Tuesday 21 May 2019 16:50 (25 minutes)

Presenter: PAPA, Massimo (INFN Catania)

Session Classification: Session

Contribution ID: 22

Type: **not specified**

SMASH transport code and light nuclei production

Tuesday 21 May 2019 17:15 (20 minutes)

Presenter: OLIINYCHENKO, Dmytro (LBL)

Session Classification: Session

Contribution ID: 23

Type: **not specified**

Discussion: Clustering and correlations in transport

Presenter: ONO, Akira (Tohoku University)

Session Classification: Session

Contribution ID: 24

Type: **not specified**

Symmetry energy constraints from GW170817 and laboratory experiments

Wednesday 22 May 2019 09:00 (30 minutes)

Presenter: TSANG, Betty (NSCL/MSU)

Session Classification: Session

Contribution ID: 25

Type: **not specified**

In-medium effects in pion production

Wednesday 22 May 2019 09:30 (40 minutes)

Presenter: KO, Che-Ming (Texas A&M University)

Session Classification: Session

Contribution ID: 26

Type: **not specified**

Energy conservation in pion production

Wednesday 22 May 2019 10:10 (25 minutes)

Presenter: COZMA, Dan (IFIN-HH)

Session Classification: Session

Contribution ID: 27

Type: **not specified**

Particle production in heavy-ion collisions with transport models

Wednesday 22 May 2019 11:05 (25 minutes)

Presenter: FENG, Zhao-Qing (South China University of Technology)

Session Classification: Session

Contribution ID: **28**

Type: **not specified**

Pion production within the AMD + JAM approaches

Wednesday 22 May 2019 11:30 (25 minutes)

Presenter: IKENO, Natsumi (Tottori University)

Session Classification: Session

Contribution ID: 29

Type: **not specified**

Strangeness production in pion induced reactions

Wednesday 22 May 2019 11:55 (25 minutes)

Presenter: FABBETTI, Laura (TU München)

Session Classification: Session

Contribution ID: **30**

Type: **not specified**

Parton transport

Wednesday 22 May 2019 14:30 (40 minutes)

Presenter: GRECO, Vincenzo (University of Catania)

Session Classification: Session

Contribution ID: 31

Type: **not specified**

Hybrid transport calculations

Wednesday 22 May 2019 15:10 (40 minutes)

Presenter: BLEICHER, Marcus (Frankfurt University)

Session Classification: Session

Contribution ID: 32

Type: **not specified**

Description of strongly interacting nuclear matter within a microscopic off-shell transport approach

Wednesday 22 May 2019 16:20 (40 minutes)

Presenter: BRATKOVSKAYA, Elena (GSI)

Session Classification: Session

Contribution ID: 33

Type: **not specified**

Quantum and stochastic effects in transport

Wednesday 22 May 2019 17:00 (20 minutes)

Presenter: LIN, Hao (MSU)

Session Classification: Session

Contribution ID: 34

Type: **not specified**

Nuclear collective dynamics in the lattice Hamiltonian method

Wednesday 22 May 2019 17:20 (20 minutes)

Presenter: WANG, Rui (Shanghai Institute of Applied Physics, CAS)

Session Classification: Session

Contribution ID: 35

Type: **not specified**

Discussion: Particle production; sub-nuclear degrees of freedom

Presenter: AICHELIN, Jörg (SUBATECH)

Session Classification: Session

Contribution ID: 36

Type: **not specified**

Discussion: Fluctuation and fragmentation

Monday 20 May 2019 17:40 (35 minutes)

Presenter: TRAUTMANN, Wolfgang (GSI)

Contribution ID: 37

Type: **not specified**

Discussion: Clustering and correlations in transport

Tuesday 21 May 2019 17:35 (35 minutes)

Presenter: ONO, Akira (Tohoku University)

Contribution ID: **38**

Type: **not specified**

Discussion: Particle production; sub-nuclear degrees of freedom

Wednesday 22 May 2019 17:40 (35 minutes)

Presenter: Prof. AICHELIN, Jörg (SUBATECH)

Contribution ID: 39

Type: **not specified**

Multi-nucleon exchange in a stochastic mean-field approach

Thursday 23 May 2019 09:00 (40 minutes)

Presenter: AYIK, Sakir (Tennessee Tech University)

Session Classification: Session

Contribution ID: 40

Type: **not specified**

Stochastic extensions of quantum mean-field approaches

Thursday 23 May 2019 09:40 (40 minutes)

Presenter: LACROIX, Denis (IPN Orsay)

Session Classification: Session

Contribution ID: 41

Type: **not specified**

EOS from low-energy reaction mechanisms

Thursday 23 May 2019 10:50 (20 minutes)

Presenter: BURELLO, Stefano (LNS -INFN)

Session Classification: Session

Contribution ID: 42

Type: **not specified**

Neutron star EoS studies in Korea

Thursday 23 May 2019 11:10 (30 minutes)

Presenter: LEE, Chang-Hwan (Pusan National University, Korea)

Session Classification: Session

Contribution ID: 43

Type: **not specified**

Transport studies in Korea

Thursday 23 May 2019 11:40 (20 minutes)

Presenter: KIM, Young-Min (UNIST, Korea)

Session Classification: Session

Contribution ID: 44

Type: **not specified**

Directed flow in heavy-ion collisions

Thursday 23 May 2019 12:00 (15 minutes)

Presenter: KIM, Myungkuk (Pusan National University)

Session Classification: Session

Contribution ID: 45

Type: **not specified**

Deductions on the EoS from neutron star mergers

Thursday 23 May 2019 14:30 (40 minutes)

Presenter: BAUSWEIN, Andreas (GSI)

Session Classification: Session

Contribution ID: 46

Type: **not specified**

Constraints on the EoS from HICs and GW events

Thursday 23 May 2019 15:10 (40 minutes)

Presenter: BURGIO, Fiorella (INFN Catania)

Session Classification: Session

Contribution ID: 47

Type: **not specified**

Light clusters and pasta phases

Thursday 23 May 2019 16:20 (40 minutes)

Presenter: PROVIDÊNCIA, Constança (University of Coimbra)

Session Classification: Session

Contribution ID: 48

Type: **not specified**

Insights on the EoS parameters from GW170817

Thursday 23 May 2019 17:00 (20 minutes)

Presenter: TSANG, Chun Yuen (MSU)

Session Classification: Session

Contribution ID: 49

Type: **not specified**

Discussion: Quantum and stochastic effects

Thursday 23 May 2019 17:20 (40 minutes)

Contribution ID: 50

Type: **not specified**

Spin dynamics in heavy-ion collisions

Friday 24 May 2019 09:00 (30 minutes)

Presenter: XU, Jun (Shanghai Advanced Research Institue, CAS)

Session Classification: Session

Contribution ID: 51

Type: **not specified**

Nuclear symmetry energy from ellitpic flow in heavy-ion collisons

Friday 24 May 2019 09:30 (30 minutes)

Presenter: WANG, Yongjia (Huzhou University)

Session Classification: Session

Contribution ID: 52

Type: **not specified**

Discussion: EoS from astrophysics and HICs

Friday 24 May 2019 10:00 (30 minutes)

Presenter: LYNCH, William (NSCL/MSU)

Contribution ID: 53

Type: **not specified**

Discussion: Status and developments of transport theories and “homework” for next workshop

Friday 24 May 2019 11:00 (45 minutes)

Presenter: DANIELEWICZ, Pawel (NSCL/MSU)

Contribution ID: 54

Type: **not specified**

Discussion: Future of code comparisons

Friday 24 May 2019 11:45 (45 minutes)

Presenter: XU, Jun (SINAP - CAS)