

17th International Conference on Strangeness in Quark Matter (SQM 2017)

10-15 July 2017 – Utrecht, the Netherlands

Preliminary program (as of 24 February 2017)

Monday, 10 July 2017

09:00-09:30 Opening
Address by the Rector Magnificus, Utrecht University
Address by the Director, Nikhef Amsterdam

Plenary session: Strangeness (multi-experiment 1)

09:30-10:00 Strangeness at high μ_B : HADES and FOPI <request to Coll.>
[new analysis of the K^-/K^+ systematics, Krzysztof Piasecki (U Warsaw)]
10:00-10:30 Strangeness at “intermediate” μ_B : RHIC-BES & NA61 <request to Coll.>

10:30-11:00 Coffee break

Plenary session: Strangeness (multi-experiment 2)

11:00-11:30 Strangeness at low μ_B : Top RHIC energy and LHC
Johanna Stachel (U Heidelberg, ALICE)
11:30-12:00 <OPEN SLOT>
12:00-12:30 Report from BEST topical collaboration Swagato Mukherjee (BNL)

12:30-14:00 Lunch

Plenary session: Strangeness (theory)

14:00-14:30 Energy dependence of strangeness production and event-by event
fluctuations Anar Rustamov (Baku)
14:30-15:00 Sequential strangeness freeze-out Rene Bellwied (U of Houston)
15:00-15:30 Universal strangeness production in hadronic and nuclear collisions
Helmut Satz (U Bielefeld)

15:30-16:00 Coffee break

***Plenary session: Open questions/issues in the understanding of strangeness
production in HIC***

[Convener: Herbert Ströbele]

16:00-16:30 Experiment Christoph Blume (U Frankfurt)
16:30-17:00 Theory Che Min Ko (Texas A&M)
17:00-17:30 Future directions (incl. fixed target option/studies in STAR)
Daniel Cebra (UC Davis)
17:30-18:30 Roundtable discussion (60 min)
2 min pitches of the panellists: 3 speakers plus M. Lisa, ...

18:30-20:00 Reception

Tuesday, 11 July 2017

Topics:

- Thermalization of charm quarks
- D_s production and charmed baryons
- Heavy-flavour production cross section
- Extraction of transport properties

Plenary session: Heavy flavour at low p_T (theory)

09:00-09:30 Heavy-quark evolution in a hydrodynamic expanding medium
(hidden vs. open charm/beauty, e.g., D and J/Ψ v2)

Marlene Nahrgang (Subatech Nantes)

09:30-10:00 **Comparison of the approaches for charm to those for light hadrons**
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10:00-10:30 Update on heavy-flavour cross-section calculations

Ramona Vogt (LLNL)

10:30-11:00 Coffee break

Plenary session: Heavy flavour at low p_T (multi-experiment)

11:00-11:40 Highlights STAR and PHENIX <request to Coll.>

11:40-12:20 Highlights ALICE and LHCb <request to Coll.>

12:00-12:30 Highlights CMS and ATLAS <request to Coll.>

12:30-14:00 Lunch

Plenary session: Heavy flavour topical talks

14:00-14:40 Open heavy-flavour Gian Michele Innocenti (MIT, CMS)

14:40-15:20 Hidden heavy-flavour Javier Castillo (Saclay, ALICE)

15:20-16:00 Coffee break

16:00-18:00 Poster session

18:00-22:00 IAC meeting (incl. dinner)

Wednesday, 12 July 2017

Plenary session: Freeze-out physics in the crossover domain: lattice vs. HRG vs. data

[Convener: Reinhard Stock]

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| 09:00-09:30 | Overlap between Lattice and HRG and the pseudo-critical temperature | Krzysztof Redlich (U Wroslaw) |
| 09:30-10:00 | Lattice results on freeze-out | Claudia Ratti (U of Houston) |
| 10:00-10:30 | Hadron transport at high densities | Jan Steinheimer (U Frankfurt) |

10:30-11:00 Coffee break

Memorial session for Prof. Helmut Oeschler

[Convener: Boris Hippolyte]

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| 11:00-11:20 | Studies at Saturne (Saclay) | Joachim Stroth (U Frankfurt) |
| 11:20-11:40 | Studies in KAOS (GSI) | Christian Münz (GSI Darmstadt) |
| 11:40-12:00 | Studies in ALICE | Alexander Kalweit (CERN) |
| 12:00-12:20 | Hadron Resonance Gas model | Jean Cleymans (U Cape Town) |

12:20-14:00 Lunch

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| 14:00-18:00 | Excursion |
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Thursday, 13 July 2017

Parallel session 1

09:00-10:30

10:30-11:00 Coffee break

Parallel session 2

11:00-12:30

12:30-14:00 Lunch

Plenary session: Global hyperon polarization and vorticity

[Convener: Jörg Aichelin]

14:00-14:25 Theory overview, hyperon polarisation

Francesco Becattini (U Florence)

14:25-14:45 Vorticity and Lambda polarisation in baryon rich matter

Oleg Teryaev (JINR Dubna)

14:45-15:05 Strongly Interacting Matter Under Rotation Yin Jiang (U Heidelberg)

15:05-15:30 **Hyperon polarization and vorticity measurements at RHIC and LHC**

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15:30-16:00 Coffee break

Plenary session: Gravitational waves (GW) and QCD

[Convener: H. Stöcker, D. Blaschke]

16:00-16:30 GW measurements highlight Jo van den Brand (U Amsterdam)

16:30-17:00 GW – signals for dense matter from binary neutron star mergers?

Luciano Rezzolla (U Frankfurt)

17:00-17:45 Discussion (45 min)

19:00-23:00 Conference Banquet, Train museum Utrecht

Friday, 14 July 2017

Plenary session: Hadron resonances dynamics in partonic and hadronic matter

[Convener: Christina Markert]

09:00-09:20 Strange resonance production and their comparison with transport codes
for RHIC and LHC energies Anders Knospe

09:20-09:40 Resonances production and interaction throughout the hadronic phase
<???

09:40-10:00 Sudden freeze-out <???

OR

09:40-10:00 Signatures of chiral symmetry restoration and its survival throughout
the hadronic phase interactions Elena Brakovskaya

10:00-10:45 Discussion (50 min) ???:
How do final-state interactions among hadrons affect the composition
of different states with open strangeness?
2 min pitches of the panellists: L. Tolos,...

10:45-11:15 Coffee break

Plenary session: Detector upgrades and physics perspectives

11:00-11:30 ALICE detector upgrades <request to Coll.>

11:30-12:00 STAR detector upgrades <request to Coll.>

12:00-12:30 NA61 perspectives for open charm measurements <request to Coll.>

12:30-14:00 Lunch

Parallel session 3

14:00-15:30

15:30-16:00 Coffee break

Parallel session 4

16:00-17:30

Saturday, 15 July 2017

Plenary session: Small systems, why are they important and what have we learnt so far?

09:00-09:25 ALICE/CMS (id. part., strange, D and J/Psi vs. mult.) <request to Coll.>
09:25-09:50 RHIC <request to Coll.>
09:50-10:15 HADES and NA61 Laura Fabbietti (TUM)
10:15-10:40 Theory overview <...>

10:40-11:10 Coffee break

Plenary session: new experiments and new facilities

[Convener: Paolo Giubellino]

11:00-11:20 MPD@NICA and BM@N Vladimir Kekelidze (JINR Dubna)
11:20-11:40 CBM@FAIR Claudia Höhne (U Giessen)
11:40-12:00 NuPECC long range plan Silvia Masciocchi (U Heidelberg)
12:00-12:20 J-PARC: plans and opportunities Naohito Saito (KEK)
12:20-12:40 sPHENIX <request to Coll.>
Gunther Roland, Dave Morrison,
Jin Huang, Mike McCumber
12:40-13:00 AFTER@LHC Laure Massacrier (tbc)
13:00-13:20 Fixed-target LHCb Vincenzo Vagnoni (tbc)

??13:00-14:00Lunch

Plenary session: Summary, awards and closing

14:00-14:40 Summary, Theory Steffen Bass (Duke U)
14:40-15:20 Summary, Experiment Manuel Calderon (UC Davis)
15:20-15:35 EPJ A Young Scientist Awards Paul Kuijter (Nikhef Amsterdam)
15:35-15:50 SQM 2019 presentation Domenico Elia (INFN Bari)
15:50 SQM 2017 closing