Program
of the Workshop of the Network NA7-Hf-QGP
of the European program 'STRONG-2020' and the HFHF

Hersonissos, Crete, Greece

4 October, Monday

9:20 – 9:30 **Jörg Aichelin** 'Opening of the STRONG Workshop'
9:30 – 10:20 **Jana Guenther** *(Wuppertal Uni.)*
'Introduction to lattice QCD', *Lecture-1*
10:20 – 11:10 **Marcus Bleicher** *(GU, Frankfurt)*
'Light cluster production in HICs'
11:10 - 11:30 Coffee Break
11:30 – 12:20 **Christian Fischer** *(Giessen Uni.)*
'The QCD phase diagram with functional methods', *Lecture-1*
12:20 – 13:10 **Elena Bratkovskaya** *(GSI & GU, Frankfurt)*
'Transport description of strongly interaction systems'

13:30 – 14:30 Lunch

17:00 – 17:25 **Olga Soloveva** *(GU, Frankfurt)*
' Evolution of transport coefficients of the hot and dense QGP along the phase transition'
17:25 – 17:50 **Tom Reichert** *(GU, Frankfurt)*
'Shear viscosity at large baryon densities'
17:50 – 18:15 **Jan Fotakis** *(GU, Frankfurt)*
'Fluid dynamics of multiple conserved charges'
18:15 - 18:25 Break
18:25 – 18:50 **Johannès Jahan** *(SUBATECH, Nantes)*
'Impact of hadronisation process and hadronic cascades on the 2nd order susceptibilities studied with the EPOS event generator'
18:50 – 19:15 **Győző Kovács** *(Wigner Research Centre for Physics, Budapest)*
'Recent improvements of the extended linear sigma model'

5 October, Tuesday

9:30 – 10:20 **Jana Guenther** *(Wuppertal Uni.)*
'Introduction to lattice QCD', *Lecture-2*
10:20 – 11:10 **Jörg Aichelin** *(SUBATECH, Nantes)*
'Cluster and hypernuclei production in HICs'
11:10 - 11:30 Coffee Break
11:30 – 12:20 **Christian Fischer** *(Giessen Uni.)*
'The QCD phase diagram with functional methods', *Lecture-2*
12:20 – 13:10 **Jan Steinheimer-Froschauer** *(FIAS, Frankfurt)*
'Near and sub-threshold charm production and the properties of dense QCD matter'

13:30 – 14:30 Lunch

17:00 – 17:25 **Juan Torres-Rincon**, *(GU, Frankfurt)*
'Kinetic theory and transport coefficients of D mesons'
17:25 – 17:50 **Tim Neidig** *(GU, Frankfurt)*
'Production of light nuclei in relativistic HIC via rate equations'
17:50 – 18:15 **Viktor Ambrus** *(GU, Frankfurt)*
'Bjorken flow attractors with transverse dynamics'
18:15 - 18:25 Break
18:25 – 18:50 **Mahbobeh Jafarpour** *(SUBATECH, Nantes)*
'Dynamical Thermalization in Heavy-Ion Collision'
18:50 – 19:15 **Paula Hillmann** *(GU, Frankfurt)*
'Net-proton number fluctuations in partial-chemical equilibrium'

6 October, Wednesday

9:30 – 10:20 **Jana Guenther** *(Wuppertal Uni.)*
'Introduction to lattice QCD', *Lecture-3*
10:20 – 11:10 **Dominik Schweitzer** *(Giessen Uni.)*
'Real-time methods for critical dynamics'

11:10 - 11:30 Coffee Break

11:30 – 12:20 **Pol-Bernard Gossiaux** *(SUBATECH, Nantes)*
'Quarkonia production in AA collisisions... How can we preserve quantum mechanics?'
12:20 – 13:10 **Carsten Greiner** *(Frankfurt Uni.)*
'Non-equilibrium studies of the chiral phase transition in a quark-meson model'

13:30 – 14:30 Lunch

17:00 – 19:00 Free discussion session

7 October, Thursday

9:30 – 10:20 **Magdalena Djordjevic** *(Institute of Physics Belgrade)*
'Constraining the QGP properties with high-pt theory and data'
10:20 – 10:45 **Jan Rais** *(GU, Frankfurt)*
'Bound State Formation in Stochastic Time Dependent Potential'
10:45 – 11:10 **Michael Winn** *(SUBATECH, Nantes)*
'Study of flow and cluster formation in HIC collision, and EOS dependence'

11:10 - 11:30 Coffee Break

11:30 – 11:55 **Gábor Balassa** *(Wigner Research Centre for Physics, Budapest)*
'Estimating tetraquark cross-sections from a statistical model'
11:55 – 12:20 **Anna Schäfer** *(GU, Frankfurt)*
'Exploring the high baryon-density regime of the QCD phase diagram within a novel hybrid model'
12:20 – 12:45 **Antoine Pfaff** *(SUBATECH, Nantes)*
'A bayesian analysis of hybrid star properties with the NJL model'
12:45 – 13:10 **Johannes Roth** *(Giessen Uni.)*
'Real-time methods for spectral functions'

13:30 – 14:30 Lunch

17:00 – 17:25 **Stefan Stojku** *(Institute of Physics, University of Belgrade)*
'Anisotropy of quark-gluon plasma inferred from high-pt data'
17:25 – 17:50 **Andrea Palermo** *(Università di Firenze, INFN Firenze)*
'Polarization as a signature of local parity violation in hot QCD matter'
17:50 – 18:15 **Christian Kummer** *(Giessen Uni.)*
'Pions in GiBUU simulations at lower energies'
18:15 - 18:25 Break
18:25 – 18:50 **Leon Sieke** *(Giessen Uni.)*
'Real-time methods for spectral functions'
18:50 – 19:15 **Oleksii Ivanytskyi** *(Uni. of Wroclaw)*
'Relativistic density functional approach to unified description of quark-hadron matter'

8 October, Friday

9:30 – 10:20 **David Blaschke** *(Uni. of Wroclaw)*
'Constraints on the dense matter equation of state from neutron stars'
10:20 – 10:45 **Justin Mohs** *(Frankfurt.Uni.)*
'Constraining the Nuclear Equation of State with Heavy-Ion Collisions'
10:45 – 11:10 **Oscar Garcia-Montero** *(GU, Frankfurt)*
'SMASH as an afterburner: Advances in the non-equilibrium hadronic evolution'
11:10 - 11:30 Coffee Break
11:30 – 12:30 Free discussion session

13:30 – 14:30 Lunch

17:00 – 19:00 Free discussion session