

Exploring high- μ_B matter with rare probes

11-15 October, 2021

Monday 11 October, 2021

Time	Talk	Speaker
13.30 – 13.35	Welcome	Gert Aarts, Swansea University, ECT* Director
13.35 – 13.45	Organization of the week	Organizers
13.45 – 14.30	The phase diagram at finite T and μ_B	Massimo Mannarelli, LNGS
14.30 – 15.00	HADES overview	Szymon Harabasz, Technische Universität Darmstadt
15.00 – 15.30	CBM overview	Christoph Blume, University Frankfurt am Main
15.30 – 16.00	NA61 overview	Marek Gazdzicki, Goethe-University Frankfurt am Main and Jan Kochanowski University Kielce
16:00 – 16:30	J-PARC-HI overview	Kyoichiro Ozawa, KEK
16.30 – 17.00	Coffee break	
17.00 - 17.30	Exploring the QCD phase diagram with Taylor expansion and analytic expansion	Christian Schmidt, Bielefeld University
17.30 – 18.00	NA60+ overview	Alessandro De Falco, Università di Cagliari
18.00 – 18.30	NICA/MPD overview	Itzhak Tserruya, Weizmann Institute of Science
18.30 – 19.00	STAR-BES overview	Frank Geurts, Rice University

Tuesday 12 October, 2021

Time	Talk	Speaker
10.00 – 12.00	Informal discussions	
12.15 – 13.15	Lunch	
13.30 – 14.10	Theory overview on dileptons	Ralf-Arno Tripolt, University of Graz
14.10 – 14.50	Review of experimental results on dileptons	Joachim Stroth, Goethe University and GSI
14.50 – 15.30	Review of experimental results on real photons	Axel Drees, Stony Brook University
15.30 – 16.00	Chiral restoration at high μ_B	Chihiro Sasaki, University of Wroclaw
16.00 – 16.30	MPD: results and prospects on dilepton measurements	Sudhir Pandurang Rode, Joint Institute for Nuclear Research (JINR)
16.30 – 17.00	Coffee break	
17.00 – 17.30	QCD phase transition in dynamical models at high μ_B at SPS energy and below	Jan Steinheimer- Froschauer, Frankfurt Institute for Advanced Studies
17.30 – 18.00	STAR-BES: dilepton results and prospects	Lijuan Ruan, Brookhaven National Laboratory
18.00 – 18.30	Electromagnetic spectral functions and charm diffusion	Olaf Kaczmarek, Bielefeld University
18.30 – 19.00	Dilepton production at low SPS energy	Hendrik van Hees, Goethe University Frankfurt
19.00 – 19.30	Dilepton production in the PHSD/PHQMD approach	Elena Bratkovskaya, GSI

Wednesday 13 October, 2021

Time	Talk	Speaker
10.00 – 12.00	Informal discussions	
12.15 – 13.15	Lunch	
13.30 – 14.15	Theory overview on open HF	Santosh Das, Indian Institute of Technology Goa
14.15 – 15.00	Review of experimental results on open HF production	Xin Dong, Lawrence Berkeley National Laboratory

15.00 – 15.30	Traces of nonequilibrium effects in the charm observables and quarkonia?	Taesoo Song, GSI
15.30 – 16.00	Prospects for open charm and strangeness measurements in NA60+	Francesco Prino, INFN Sezione di Torino
16.00 – 16.30	Nonperturbative open heavy flavor transport in hot QCD matter	Min He, Nanjing University of Science & Technology
16.30 – 17.00	Coffee break	
17.00 – 17.30	Charm and strangeness production in the statistical hadronization model	Anton Andronic, University of Muenster
17.30 – 18.00	Open charm studies in NA61/SHINE	Pawel Stasz, Jagiellonian University
18.00 – 18.45	Signatures of Moat Regimes at high density	Robert Pisarski, Brookhaven National Laboratories
18.45 – 19.15	Results on electromagnetic form factors	Piotr Salabura, M. Smoluchowski Institute of Physics

Thursday 14 October, 2021

Time	Talk	Speaker
10.00 – 12.00	Informal discussions	
12.15 – 13.15	Lunch	
13.30 – 14.15	Theory overview on quarkonium	Baoyi Chen, Tianjin University
14.15 – 15.00	Review of experimental results on quarkonium production	Roberta Arnaldi, INFN
15.00 – 15.30	Quarkonium kinetics in hadronic matter	David Blaschke, University of Wroclaw
15.30 – 16.00	Current and future measurements of quarkonia and open HF in fixed target mode at the LHC	Michael Winn, CEA IRFU
16.00 – 16.30	Elements of quantum dissociation of quarkonia	Michael Strickland, Kent State University
16.30 – 17.00	Coffee break	
17.00 – 17.30	Quarkonium production at low SPS energy in the comover approach	Elena Ferreiro, University of Santiago de Compostela
17.30 – 18.00	Quarkonium transport at SPS energy and below	Xiaojian Du, Bielefeld University
18.00 – 18.30	Quarkonium production in pp and pPb collisions at low SPS energy	Ramona Vogt, LLNL and UC Davis
18.30 – 19.00	An effective field theory at finite chemical potential	Sourendu Gupta, TIFR

Friday, 15 October, 2021

Time	Talk	Speaker
9.30 – 10.25	Summary/wrap up 1 (dileptons)	Tetyana Galatyuk,. Ralf Rapp, Gianluca Usai
10.25 – 11.20	Summary/wrap up 2 (heavy flavours)	Maria Paola Lombardo, Ralf Rapp, Enrico Scomparin
11.20 – 12.20	Discussion on the preparation of a document/review to be published	All
12.30	Lunch	