



# Workshop for young scientists with research interests focused on physics at FAIR

## Monday 16 September 2013

### Talks and Discussions - Lombardei (09:15-10:30)

time	[id] title	presenter
09:15	[38] Theory of the CBM experiment: QCD phase transitions, critical phenomena and rare diagnostic probes	Dr NAHRGANG, Marlene
10:00	[29] Investigation of surface homogeneity of mirrors for the CBM-RICH detector and low-mass di-electron feasibility studies in CBM	Mrs LEBEDEVA, Elena

### Talks and Discussions - Lombardei (11:00-12:30)

time	[id] title	presenter
11:00	[36] Nonequilibrium dynamics and transport near the chiral phase transition of a quark-meson model	Mr MEISTRENKO, Alex
11:30	[27] How spinodal decomposition influences observables at FAIR energies	Mr HEROLD, Christoph
12:00	[7] Finite density equation of state of QCD by means of resummed perturbation theory	Mr MOGLIACCI, Sylvain

### Talks and Discussions - Lombardei (14:30-16:00)

time	[id] title	presenter
14:30	[8] Wilson coefficients of Four-Quark Condensates for the Description of Medium Modifications of $q\bar{q}$ Mesons	Mr BUCHHEIM, Thomas
15:00	[32] The $\psi(4040)$ at the future PANDA experiment	Ms ZOTTI, laura
15:30	[42] A new method for electron momentum reconstruction in the PANDA experiment	Mr MA, Binsong

## Tuesday 17 September 2013

### Talks and Discussions - Lombardei (09:15-10:30)

time	[id] title	presenter
09:15	[46] QCD phase diagram: overview of recent lattice results	Dr ENDRODI, Gergely
10:00	[15] Mesons, PANDA and the Importance of Scalar Glueball	Dr PARGANLIJA, Denis

### Talks and Discussions - Lombardei (11:00-12:30)

time	[id] title	presenter
11:00	[4] Microscopic-macroscopic method for studying single-particle level density of superheavy nuclei	Mrs BEZBAKH, Anna
11:30	[18] Production of heavy meson-pairs at proton-antiproton collisions within a double handbag approach	Dr GORITSCHNIG, Alexander Thomas
12:00	[41] Hyperon production in proton-antiproton annihilations with PANDA	Dr SCHÖNNING, Karin

### Talks and Discussions - Lombardei (14:30-16:00)

time	[id] title	presenter
14:30	[20] Electron identification in Au+Au at 1.23 GeV/u using multi-variate analysis	Mr HARABASZ, Szymon
15:00	[22] Reconstruction of pi0 and eta mesons via external conversion in Au+Au at 1.23 AGeV with HADES	Mrs BEHNKE, Claudia
15:30	[13] Monte-Carlo simulation of lepton pair production in "p pbar --> e+e- + X" events at PANDA	Dr SKACHKOVA, Anna

# Wednesday 18 September 2013

## Talks and Discussions - Lombardei (09:00-10:30)

time	[id] title	presenter
09:00	[9] Strange and heavy mesons in hadronic matter	CABRERA, Daniel
09:45	[40] Recent results on dilepton and strangeness production with HADES and perspectives at FAIR	Dr LAPIDUS, Kirill

## Talks and Discussions - Lombardei (11:00-12:00)

time	[id] title	presenter
11:00	[30] Overview of the Compressed Baryonic Matter Experiment at FAIR	Mr BALOG, Tomas
11:30	[11] D-meson diffusion in hadronic matter	Dr TORRES-RINCON, Juan M.

## Talks and Discussions - Lombardei (14:30-15:30)

time	[id] title	presenter
14:30	[39] Radiation fields from HZE particles studied with Geant4-based simulations	Mr BURIGO, Lucas

# Thursday 19 September 2013

## Talks and Discussions - Lombardei (09:15-10:30)

time	[id] title	presenter
09:15	[49] Understanding the structure of exotic nuclei - experimental techniques and developments	Dr LANGER, Christoph
10:00	[24] Search for mesic nuclei in the photoproduction of $\eta$ and $\eta'$ mesons off light nuclei	Dr KESHELASHVILI, Irakli

## Talks and Discussions - Lombardei (11:00-12:30)

time	[id] title	presenter
11:00	[21] Simulation and optimization of the PANDA detector to measure the form factor of the Ds semileptonic decay	Ms CAO, Lu
11:30	[14] Evolution of elliptic and triangular flow as a function of beam energy in a hybrid model	AUVINEN, Jussi
12:00	[10] The relation between cross section, decay width and imaginary potential of heavy quarkonium in a quark-gluon plasma	Dr ESCOBEDO ESPINOSA, Miguel Angel

## Talks and Discussions - Lombardei (14:30-16:00)

time	[id] title	presenter
14:30	[28] The Compressed Baryonic Matter experiment	Dr SEDDIKI, Selim
15:00	[31] Track measurements in the high multiplicity environment at the CBM experiment	Mr GHOSH, Pradeep
15:30	[37] Nature of $f_0(1370)$ , $f_0(1500)$ and $f_0(1710)$ within the extended Linear Sigma Model	Mr JANOWSKI, Stanislaus

## Friday 20 September 2013

### Talks and Discussions - Zurich (09:15-10:30)

time	[id] title	presenter
09:15	[16] Experimental overview of PANDA	FIORAVANTI, Elisa
10:00	[48] Investigation of light and heavy tetraquark candidates using lattice QCD	Prof. WAGNER, Marc

### Talks and Discussions - Zurich (11:00-12:30)

time	[id] title	presenter
11:00	[34] Double handbag description of proton-antiproton annihilation into a light meson pair	Mr KOFLER, Stefan
11:30	[6] Effective field theory for the weak $\Lambda N \rightarrow NN$ interaction	Mr PÉREZ-OBIOL, Axel
12:00	[19] Polyakov Loop Susceptibilities in Pure Gauge System	Dr LO, Pok Man

### Talks and Discussions - Zurich (14:30-16:00)

time	[id] title	presenter
14:30	[12] Zero temperature properties of mesons and baryons from an extended linear sigma-model	Dr KOVACS, Peter
15:00	[5] Triplet Based Online Track Finding in the PANDA-STT	Dr MERTENS, Marius C.
15:30	[35] Status and future plan of deeply bound pionic atoms spectroscopy	Mr WATANABE, Yuni

# Saturday 21 September 2013

## Talks and Discussions - Lombardei (09:30-10:45)

time	[id] title	presenter
09:30	[43] Theoretical nuclear structure and astrophysics at FAIR	Dr RODRÍGUEZ, Tomás
10:15	[26] Dileptons from Transport Calculations and Coarse-grained Dynamics	Mr ENDRES, Stephan

## Talks and Discussions - Lombardei (11:15-12:15)

time	[id] title	presenter
11:15	[50] Beam energy scan using a hydro+cascade model	Dr KARPENKO, Iurii
11:45	[44] MPD Detector at NICA, JINR, Dubna, Russia	Ms YORDANOVA, Lyubka