

ICTP-SAIFR/FAIR Workshop on Mass Generation in QCD

February 25 – March 1, 2019

ICTP—SAIFR, São Paulo, Brazil

| Monday, February 25, 2019 | | | | |
|---------------------------|--|--|-------|--|
| 09:45 | Welcome and opening remarks | | 14:45 | Evgeny Epelbaum Ruhr University Bochum <i>Hadronic molecules from effective field theory</i> |
| 10:00 | Klaus Peters GSI Darmstadt | <i>Status and progress of FAIR</i> | 15:30 | Marcio Weichert DWIH São Paulo <i>Introduction to the German Centres for Research and Innovation</i> |
| 10:45 | Coffee Break | | 15:45 | Nathan Berkovits ICTP-SAIFR/State Univ. São Paulo <i>Summary of ICTP-SAIFR activities</i> |
| 11:15 | Takeshi Kodama Federal U. Rio de Janeiro | <i>The National Institute for Nuclear Physics and Applications</i> | 16:00 | Coffee Break |
| 12:00 | Alinka Lépine Szily University of São Paulo | <i>RIBRAS — Radiative Beams in Brazil</i> | 16:30 | Round Table |
| 12:45 | Lunch Break | | | |

| Tuesday, February 26, 2019 | | | | |
|----------------------------|--|--|-------|---|
| 10:00 | Ulrich Wiedner Ruhr University Bochum | <i>Glueballs – fundamental, exciting and elusive</i> | 15:00 | Kazuo Tsushima Cruzeiro do Sul University <i>In-medium properties of the low-lying strange, charm, and bottom baryons in the quark-meson coupling model</i> |
| 10:45 | Coffee Break | | 15:30 | João Pacheco B.C. de Melo Cruzeiro do Sul University <i>Extraction of electromagnetic form factors for spin-1 particles on the light-front</i> |
| 11:15 | Frank Maas Helmholtz Institute Mainz | <i>Nucleon structure studies with the PANDA experiment</i> | 16:00 | Coffee Break |
| 12:00 | Tord Johansson Uppsala University | <i>Prospects for hyperon physics with PANDA</i> | 16:30 | Fernando Serna Cruzeiro do Sul University <i>Interplay of dynamical and explicit chiral symmetry breaking effects on a quark</i> |
| 12:45 | Lunch break | | 17:00 | Fábio Braghin Federal Univ. of Goiás <i>Pion and constituent quark effective interactions and constituent quark mass</i> |

Wednesday, February 27, 2019

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| 10:00 | Anastasios Belias GSI Darmstadt | <i>The PANDA detector</i> | 15:00 | Rubens Lichtenthaler University of Sao Paulo | <i>Selected ongoing projects at RIBRAS</i> |
| 10:45 | Coffee Break | | 15:30 | Mauro Cosentino Federal U. of ABC Sao Paulo | <i>Simulation for high energy physics detectors</i> |
| 11:15 | Marco Bregant University of Sao Paulo | <i>Instrumentation Lab of HEPIC@IFUSP</i> | 16:00 | Coffee Break | |
| 12:00 | Tobias Stockmanns Forschungszentrum Julich | <i>PandaRoot – the simulation and reconstruction framework of PANDA</i> | 16:30 | Giorgio Torrieri State University of Campinas | <i>Swimming and swirling colorful ghosts: the ideal hydrodynamic limit and non-Abelian gauge symmetries</i> |
| 12:45 | Lunch Break | | 17:00 | Marina Nielsen University of Sao Paulo | <i>The XYZ states</i> |

Thursday, February 28, 2019

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| 10:00 | Kai-Thomas Brinkmann Giessen University | <i>Photon spectroscopy at PANDA and elsewhere</i> | 15:00 | Gilberto Ramalho Cruzeiro do Sul University | <i>Electromagnetic structure of octet baryons in nuclear medium</i> |
| 10:45 | Coffee Break | | 15:30 | Chen Chen IFT State University Sao Paulo | <i>Structure of the nucleon’s low-lying excitations</i> |
| 11:15 | Christian Fischer Giessen University | <i>QCD phase transition from Dyson-Schwinger equations</i> | 16:00 | Coffee Break | |
| 12:00 | Fernando Navarra University of Sao Paulo | <i>Heavy quarkonium in a hadron gas</i> | 16:30 | Tobias Frederico ITA Sao Jose dos Campos | <i>Minkowski space dynamics for hadrons</i> |
| 12:45 | Lunch Break | | | | |

Friday, March 1, 2019

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| 10:00 | Klaus Peters GSI Darmstadt | <i>Experimental status and outlook of the XYZ mystery</i> | 12:00 | Jorge Noronha University of Sao Paulo | <i>Out-of-equilibrium phenomena at finite density</i> |
| 10:45 | Coffee Break | | 12:45 | Workshop Closure and Lunch | |
| 11:15 | Marcelo Munhoz University of Sao Paulo | <i>Heavy-Flavor Hadrons as a Probe of the Quark-Gluon Plasma</i> | | | |