

Advanced Studies Institute on Symmetries and Spin July 1 – 8, 2012, Prague, Czech Republic

Programme (2012-07-02)

July 1, 2012 Sunday

Registration

16:00-19:00 Faculty of Mathematics and Physics, Campus Pelc Tyrolka, V Holesovickach 2

July 2, 2012 Monday

Opening

09:30-10:00 Finger Michael (CUNI Prague) 15'
Skrbek Ladislav (CUNI Prague) 15'

Session 1 Chairperson: Finger Miroslav

10:00 – 11:00 Kovalenko Alexander (JINR Dubna) 60'
Nuclotron-M/NICA Project at JINR: Some Aspects of Spin Physics Studies.

11:00-11:20 Coffee break

Session 2 Chairperson: Carboni Giovanni

11:20 – 12:10 Hauschild Michael (CERN) 50'
Status and Recent Results of the ATLAS Experiment

12:10 – 13:00 Sonnenschein Lars (RWTH Aachen) 50'
CMS results and status

13:00-14:00 Lunch

Session 3 Chairperson: Sonnenschein Lars

14:00 – 14:50 Carboni Giovanni (Universita di Roma Tor Vergata) 50'
Status of LHCb

14:50 – 15:40 Masuda Yasuhiro (KEK) 50'
Production of ultracold neutrons and a project for neutron EDM

15:40-16:10 Coffee break

Session 4 Chairperson: Hauschild Michael

16:10 – 17:00 Lehmann Inti (FAIR) 50'
Proton-Antiproton Annihilations at FAIR - The PANDA

17:00 – 17:50 Naik Paras (University of Bristol) 50'
Amplitude analysis for CP violation studies in LHCb

17:50 – 18:20 Shires Alexander (Imperial College London) 30'
Testing the helicity structure of new physics with rare decays at LHCb

18:20 – 18:50 Tarem Shlomit (Technion, Haifa) 30'
Review of supersymmetry searches at ATLAS

Welcome Party

19:00 – 21:00 Faculty of Mathematics and Physics, Campus Pelc Tyrolka

July 3, 2012 Tuesday

Session 5 Chairperson: Lehmann Inti

- 9:00 – 9:50 Ferro-Luzzi Massimiliano (CERN) 50'
LHCb upgrade
- 9:50 – 10:40 Cobal Marina (CERN) 50'
ATLAS Upgrades Towards the High Luminosity LHC: extending the discovery potential

10:40-11:10 *Coffee break*

Session 6 Chairperson: Rith Klaus

- 11:10 – 12:00 Taroni Silvia (University/INFN of Perugia) 50'
W and Z studies at 7 TeV at CMS
- 12:00 – 12:30 Blanchard Jean-Baptiste (IRFU, CEA/Saclay) 30'
W-polarisation and helicity studies in W and top production
- 12:30 – 13:00 Marcisovsky Michal (IoP ASCR Prague) 30'
Heavy flavour onia production

13:00-14:00 *Lunch*

Session 7 Chairperson: Kovalenko Alexander

- 14:00 – 14:50 Rith Klaus (University Erlangen-Nürnberg) 50'
Recent HERMES results - an overview
- 14:50 – 15:40 Nicmorus Diana (FAIR) 50'
FAIR Project
- 15:40 – 16:10 Machikhiliyan Irina (LAPP Annecy) 30'
Production and polarisation measurements in LHCb

18:00-19:00 **Excursion to Carolinum**

19:00-20:00 **Concert of Classical Music at Aula Magna Carolina**

July 4, 2012 Wednesday

Session 8 Chairperson: Maggiora Marco

- 9:00 – 9:50 CERN seminar 50'
Latest update in the search for the Higgs boson
- 9:50 – 10:40 CERN seminar 50'
Latest update in the search for the Higgs boson

10:40-11:10 *Coffee break*

Session 9 Chairperson: Saito Naohito

- 11:10 – 12:00 Maggiora Marco (University/INFN of Torino) 50'
Transverse parton distribution functions in Drell-Yan production at FAIR
- 12:00 – 12:30 Alexeev Maxim (INFN Trieste) 30'
Polarised Drell-Yan program at COMPASS

12:30 – 13:00 Ichikawa Yuichi (Tokyo Institute of Technology) 30'
Spin manipulation of RI beams from two-stage projectile fragmentation reaction

13:00-14:00 Lunch

Session 10 Chairperson: Asahi Koichiro

14:00 – 14:50 Saito Naohito (KEK/JParc) 50'
Muon g-2 and EDM project at JParc

14:50 – 15:40 Dorokhov Alexander (JINR Dubna) 50'
Hadronic contributions to muon g-2

15:40 – 16:10 Fimushkin Victor (JINR Dubna) 30'
Status of the Source of Polarized Ions for the JINR accelerator COMPLEX

Conference Banquet

19:00-22:00 Novotneho lavka

July 5, 2012 Thursday

Session 11 Chairperson: Efremov Anatolii

9:00 – 9:50 Pasquini Barbara (Pavia University) 50'
Wigner Distribution and Quark Orbital Angular Momentum

9:50 – 10:40 Melis Stefano (ETC*) 50'
Overview of Transversity

10:40-11:10 Coffee break

Session 12 Chairperson: Ejiri Hiro

11:10 – 12:00 Asahi Koichiro (Tokyo Institute of Technology) 50'
Experimental search for EDM in a diamagnetic atom ^{129}Xe with spin oscillator technics

12:00 – 12:30 Guidoboni Greta (INFN Ferrara) 30'
Search of the Electric Dipole Moment in storage rings

12:30 – 13:00 Sato Tomoya (Tohoku University) 30'
EDM Project with radioactive paramagnetic Fr atoms

13:00-14:00 Lunch

Session 13 Chairperson: Finger Miroslav

14:00 – 14:50 Ejiri Hiro (RCNP Osaka) 50'
Neutrino nuclear spin responses studied by nuclear photon and lepton reactions

14:50 – 16:30 Seele Joseph (RIKEN-BNL) 100'
PHENIX Spin : Current status and future prospects

16:30-16:20 Coffee break

Session 14 Chairperson: Selyugin Oleg

16:20 – 16:50 Shevchenko Oleg (JINR Dubna) 30'
Nucleon spin structure from DIS and SIDIS processes

- 16:50 – 17:20 Uzikov Yury (JINR Dubna) 30'
Spin dependence of the the $\bar{p}d$ and $\bar{p}^3\text{He}$ interactions
- 17:20 – 18:10 Crawford Christopher (University of Kentucky) 50'
Fundamental symmetry tests with Ultracold neutrons

July 6, 2012 Friday

Session 15 Chairperson: Pasquini Barbara

- 9:00 – 9:50 Efremov Anatolii (JINR Dubna) 50'
Recent news on TMD PDFs
- 9:50 – 10:40 Goloskokov Sergey (JINR Dubna) 50'
Polarized GPDs in pions and kaons leptroduction

10:40-11:10 Coffee break

Session 16 Chairperson: Prochazka Ivan

- 11:10 – 12:00 Litvinenko Anatoly (JINR Dubna) 50'
NICA MPD Project
- 12:00 – 12:30 Strokovskiy Evgeniy (JINR Dubna) 30'
Momentum distributions, spin-dependent observables and asymptotic D/S ratio in ^3He
- 12:30 – 13:00 Ladygin Vladimir (JINR Dubna) 30'
Strange matter production in heavy ion collisions at Nuclotron (BM@N project)

13:00-14:00 Lunch

Session 17 Chairperson: Strokovskiy Evgeniy

- 14:00 – 14:30 Selyugin Oleg (JINR Dubna) 30'
Generalized hadron structure and elastic scattering
- 14:30 – 15:00 Ladygina Nadezda (JINR Dubna) 30'
Polarisation observables in $dd \rightarrow ^3\text{He} n$ reaction at intermediate energies
- 15:00 – 15:30 Shipilova Alexandera (Samara State Iniversity) 30'
 b -jet production at high energy colliders in the framework of parton Reggeization theory
- 15:30 – 16:00 Saleev Vladimir (Samara State University) 30'
Angular Distributions of Drell-Yan Dileptons in the Parton Reggeization Approach

16:00-16:30 Coffee break

Session 18 Chairperson: Litvinenko Anatoly

- 16:30 – 17:00 Aslanyan Petros (JINR Dubna) 30'
New study of the missing mass spectra from the $C(p, K^0)$ and $C(p, \Lambda)$ reactions at 10 GeV/c
- 17:00 – 17:30 Piskunov Nikolay (JINR Dubna) 30'
The estimation of the spin dependent part of the np - pn exchange amplitude
- 17:30 – 18:00 Sulc Miroslav (TUL Liberec) 30'
Vacuum Magnetic Birefringence measurement at OSQAR experiment
- 18:00 – 18:30 Steiger Lukas (TUL Liberec) 30'
Development of single photon detector based on THGEM technology

18:30 – 19:00 Grebenyuk Victor (JINR Dubna) 30'
Results of the beam-test of the trigger system of experiment THE NUCLEON

July 7, 2012 Saturday

Session 19 Chairperson: Finger Michael

9:00 – 9:30 du Fresne von Hohenesche Nicolas (Institut fuer Kernphysik, Uni Mainz) 30'
Luminosity Determination with Random Trigger at COMPASS

9:30 – 10:00 Weisrock Tobias (Mainz University) 30'
Likelihood Methods for Beam Particle Identification at the COMPASS Experiment

10:00 – 10:30 Pesek Michael (CUNI Prague) 30'
Low temperature proton polarized target for nucleon structure studies at COMPASS

10:30-10:50 Coffee break

Session 20 Chairperson: Kolganova Elena

10:50 – 11:20 Jarý Vladimír (CTU Prague) 30'
Highly available and reliable database system for the COMPASS experiment

11:20 – 11:50 Novy Josef (CTU Prague) 30'
COMPASS DAQ - Basic Control System

11:50 – 12:20 Bodlak Martin (CTU Prague) 30'
COMPASS DAQ - Database Architecture and Support Utilities

Closing

12:20 – 12:40 Finger Miroslav (CUNI Prague/JINR Dubna) 20'

Poster session:

Finger Michael : Project SPHERE

Steiger Lukas: Development of single photon detector based on THGEM technology

ASI: Tribute to the memory of F. Lehar