

# **4th International Conference on New Frontiers in Physics ICNFP2015**

**Sunday 23 August 2015 - Sunday 30 August 2015**

## **Programme**

# Table of contents

Sunday 23 August 2015 .....	1
Monday 24 August 2015 .....	2
Tuesday 25 August 2015 .....	4
Wednesday 26 August 2015 .....	7
Thursday 27 August 2015 .....	12
Friday 28 August 2015 .....	14
Saturday 29 August 2015 .....	15
Sunday 30 August 2015 .....	17

## Sunday 23 August 2015

### **Lectures: Opening (14:10-14:15)**

time	title	presenter
14:10	Opening (00h05')	BRAVINA, Larisa

### **Lectures (14:15-16:45)**

- Conveners: Khoze, Valery

time	title	presenter
14:15	The Constituent-Quark Model - Nowadays (00h50')	PLESSAS, Willibald
15:05	Hamiltonian Approach to QCD in Coulomb gauge-from the vacuum to finite temperatures (00h50')	REINHARDT, Hugo
15:55	Charmonium production on nuclei: a story of surprises (00h50')	KOPELIOVICH, Boris

### **Coffee break (16:45-17:05)**

### **Lectures (17:05-18:45)**

- Conveners: Reinhardt, Hugo

time	title	presenter
17:05	Soft physics of heavy ion collisions (00h50')	CSERNAI, Laszlo
17:55	Recent Results from the Telescope Array Ultra High Energy Cosmic Ray Observatory (00h50')	MATTHEWS, John

### **Social Event (18:45-20:00)**

### **Dinner and Social Event (20:00-21:30)**

# Monday 24 August 2015

## Plenaries: Session 1: Welcome (08:15-08:45)

time	title	presenter
08:15	Welcome from Organizers (00h15')	FOKA, Yiota
08:30	History of OAC (00h15')	LARENTZAKIS, Emanuella

## Plenaries: Session 1 (08:45-10:55)

- Conveners: Shevchenko, Vladimir

time	title	presenter
08:45	Photons walking the line (00h40')	JEX, Igor
09:25	Hagedorn temperature and physics of black holes (00h30')	ZAKHAROV, Valentin
09:55	Scales hierarchies in particle physics and cosmology (00h30')	ANTONIADIS, Ignatios
10:25	Supersymmetry, Cosmological Constant and Inflation (00h30')	MAVROMATOS, Nikos

## Coffee break (10:55-11:15)

## Plenaries: Session 2 (11:15-13:45)

- Conveners: Redlich, Krzysztof

time	title	presenter
11:15	Thermal Dileptons and the QCD Phase Transitions (00h30')	SPECHT, Hans
11:45	QGP formation in small systems? (00h30')	TSERRUYA, Itzhak
12:15	The Physics of FAIR (00h30')	STROTH, Joachim
12:45	Conciliating SUSY with the Z-peaked excess (00h30')	MITSOU, Vasiliki
13:15	Large Scale Data Analysis and Computing; past and future (00h30')	BRUN, Rene

## Lunch (13:45-15:05)

## Plenaries: Session 3 (15:05-16:50)

- Conveners: Kourkoumelis, Christine

time	title	presenter
15:05	Flavour Physics at LHCb (00h30')	ADEVA, Bernardo
15:35	Observation of pentaquark resonances in $\Lambda_{cb} \rightarrow J/\psi K p$ decays (00h15')	ADEVA, Bernardo
15:50	Higgs boson combined results (00h30')	VANLAER, Pascal
16:20	Particle Physics Outreach in the LHC era: Higgs - what's next? (00h30')	BECK, Hans Peter

## Coffee break (16:50-17:10)

## Plenaries: Session 4 (17:10-18:30)

- Conveners: Zabrodin, Evgeny

time	title	presenter
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17:10	Archimedes Force on Casimir Apparatus (00h30')	SHEVCHENKO, Vladimir
17:40	The restless gamma-ray sky and clues on new physics: seven years of discoveries with Fermi Large Area Telescope (00h25')	CUTINI, Sara
18:05	Progress report for the AEGIS antimatter gravity experiment (00h25')	KELLERBAUER, Alban

**Dinner (20:00-21:00)**

**Social event (21:00-23:00)**

## Tuesday 25 August 2015

### Plenaries: Session 1 (08:30-10:30)

- Conveners: Tserruya, Itzhak

time	title	presenter
08:30	Space research and radiobiology at FAIR (00h30')	PLESKAC, Radek
09:00	Experimental techniques and methods in hadron spectroscopy (00h30')	NERLING, Frank
09:30	Proton structure and PDFs from HERA (00h30')	CHEKELIAN, Vladimir
10:00	Central Exclusive production at hadron colliders (00h30')	KHOZE, Valery

### Coffee break (10:30-10:55)

### Plenaries: Session 2 (10:55-13:15)

- Conveners: Dr. Mitsou, Vasiliki

time	title	presenter
10:55	Nucleon structure studies with the COMPASS experiment at CERN (00h25')	PLATCHKOV, Stephane
11:20	Hadron production at SIS energies - overview of SIS18 results and prospect for SIS100 (00h25')	KUGLER, Andrej
11:45	Highlights from Belle (00h20')	KWON, Youngjoon
12:25	Precision Measurement of the Proton and Helium Fluxin Primary Cosmic Rays with AMS-02 (00h25')	HEIL, Melanie
12:50	Chaotic vortical flows and their manifestations (00h25')	SORIN, Alexander

### Lunch (13:15-14:25)

### Parallel 1: Spin Physics / Spectroscopy (14:25-15:30)

time	title	presenter
14:25	Highlights from the COMPASS experiment at CERN - Hadron spectroscopy and excitations (00h25')	NERLING, Frank
14:50	Spin Physics Results from PHENIX (00h20')	SEIDL, Ralf
15:10	Proton spin in leading order of the covariant approach (00h20')	ZAVADA, Petr

### Parallel 2: Particle physics / Higgs (14:25-15:30)

time	title	presenter
14:25	Measurements of the properties of the Higgs boson using the ATLAS Detector (00h25')	QUEITSCH-MAITLAND, Michaela
14:50	Combination of couplings of the Higgs boson by the ATLAS experiment with Run 1 data (00h20')	LU, Nan
15:10	Search for Higgs Bosons produced in association with top quarks with the ATLAS detector (00h20')	QIN, Yang

### Parallel 3: Heavy ion (14:25-15:30)

time	title	presenter
14:25	Searching for the QCD critical point through power-law fluctuations of the proton density in A+A collisions at 158A GeV (00h25')	DAVIS, Nikolaos
14:50	Recent results from NA61/SHINE (00h20')	ANDRONOV, Evgeny
15:10	Correlations and fluctuations in p+p and Be+Be collisions at the SPS energies from NA61/SHINE (00h20')	SERYAKOV, Andrey

#### **Parallel 4: Lattice QCD / Particle physics (theory) (14:25-15:30)**

time	title	presenter
14:25	Perfect Abelian dominance of confinement in mesons and baryons in SU(3) lattice QCD (00h25')	SAKUMICHI, Naoyuki
14:50	New tests of variability of the speed of light (00h20')	DABROWSKI, Mariusz
15:10	Turbulent advection of a passive vector field: Effects of the anisotropy and finite correlation time (00h20')	GULITSKIY, Nikolay

#### **Parallel 5: Neutrino, Astroparticle, Nuclear physics (14:25-15:30)**

time	title	presenter
14:25	Search for Annual and Daily Variations of Nucleus Decay Parameters (00h20')	MAYBUROV, Sergey
14:45	LHCf experiment: forward physics at LHC for cosmic rays study (00h20')	DEL PRETE, Marina
15:05	Very-high energy astrophysical neutrinos with IceCube (00h25')	TABOADA, Ignacio

#### **Parallel 6: Particle physics / Standard Model (14:25-15:30)**

time	title	presenter
14:25	Standard Model results with the CMS experiment (00h25')	CEARD, Ludivine
14:50	Precision measurements of Standard Model parameters and Review of Drell-Yan and vector boson plus jets measurements with the ATLAS detector (00h20')	CALACE, Noemi
15:10	Forward and small-x QCD physics (CMS) (00h20')	GUNNELLINI, Paolo

#### **Parallel 1: Exotics (15:30-16:30)**

time	title	presenter
15:30	Exotica in CMS (00h25')	WULZ, Claudia
15:55	Searches for Exotic physics beyond the Standard Model with the ATLAS detector (00h25')	HALEY, Joseph

#### **Parallel 2: Particle physics / New physics (15:30-16:30)**

time	title	presenter
15:30	Searches for new physics with top- and bottom-quark signatures using the ATLAS detector (00h20')	FASSI, Farida
15:50	Magnetic monopole search with the MoEDAL trapping detector (00h20')	KATRE, Akshay
16:10	Searches for new phenomena in high-mass (non)resonant production with the ATLAS detector (00h20')	FISCHER, Cora

**Parallel 3: Heavy ion (15:30-16:30)****Parallel 4: Particle physics / Theory (15:30-16:30)****Parallel 5: B-physics and Spectroscopy (15:30-16:30)**

time	title	presenter
15:30	Review of $\phi_3$ measurements at Belle (00h20')	CERVENKOV, Daniel
15:50	Recent $D^{**}$ and $D^{**}_s$ observations at Belle (00h20')	MATVIENKO, Dmitry
16:10	Recent results on B-Physics and Quarkonia with the ATLAS detector (00h20')	JONES, Roger

**Parallel 6: Particle physics (15:30-16:30)**

time	title	presenter
15:30	Recent results on soft QCD topics, and jet and photon production from ATLAS (00h20')	JONES, Roger
15:50	Measurements of Multi-boson production, Trilinear and Quartic Gauge Couplings with the ATLAS detector (00h20')	BECKER, Maurice

**Coffee break (16:30-17:00)****Social event (17:00-20:30)****Dinner (20:30-22:30)**



## Wednesday 26 August 2015

### **Plenaries: Session 1: Introduction: historical review (08:20-08:30)**

- Conveners: Rafelski, Johann

time	title	presenter
08:20	Introduction (00h10')	RAFELSKI, Johann

### **Plenaries: Session 1 (08:30-10:30)**

- Conveners: Rafelski, Johann

time	title	presenter
08:30	Hagedorn's Limiting Temperature and the Onset of Deconfinement (00h30')	GORENSTEIN, Mark
09:00	Event by Event Analysis in Relativistic Nucleus-Nucleus Collisions (00h30')	STOCK, Reinhard
09:30	Hagedorn mass spectrum and QCD thermodynamics (00h30')	REDLICH, Krzysztof
10:00	Appearance of Hagedorn limiting temperature in microscopic model calculations (00h30')	ZABRODIN, Evgeny

### **Coffee break (10:30-10:50)**

### **Plenaries: Session 2 (10:50-13:10)**

- Conveners: Zakharov, Valentin

time	title	presenter
10:50	A possible evidence of observation of two mixed phases in nuclear collisions (00h30')	BUGAIEV, Kyrylo
11:20	High temperature Bose-Einstein condensation (00h25')	BEGUN, Viktor
11:45	Beyond the thermal model (00h25')	WOLSCHIN, Georg
12:10	Colour Particle States Behaviour in the QCD Vacuum (00h30')	KUVSHINOV, Viacheslav
12:40	Hot Universe (00h30')	RAFELSKI, Johann

### **Lunch (13:10-14:20)**

### **Plenaries: Session 3: Plenaries: Session 3 (14:20-15:15)**

- Conveners: Dr. Nardi, Marzia

time	title	presenter
14:20	Recent progresses in heavy flavor physics in URHIC (00h30')	GOSSIAUX, Pol
14:50	Hydro-inspired freeze-out model with jets for relativistic heavy Ion collisions (HYDJET++) (00h25')	EYYUBOVA, Gyulnara

### **Parallel 1: Particle physics / Future Experiments (15:25-17:25)**

time	title	presenter
15:25	SHiP: a new multipurpose beam-dump experiment at the SPS (00h20')	DIJKSTRA, Hans
15:45	Future physics potential of CMS (00h20')	HOEPFNER, Kerstin
16:05	PHENIX Future Plans and Prospects (00h20')	MCCUMBER, Michael

16:25	The NA62 experiment at CERN (00h20')	PICCINI, Mauro
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### **Parallel 2: Top quark physics (15:25-17:25)**

time	title	presenter
15:25	Top quark pair production measurements using the ATLAS detector at the LHC (00h20')	BERTSCHE, Callie
15:45	Beyond 2 Generations with CMS (00h20')	ANAGNOSTOU, Georgios
16:05	Single Top quark production cross section and properties using the ATLAS detector at the LHC (00h20')	CHEGWIDDEN, Andrew Mc Rae
16:25	Top quark pair properties using the ATLAS detector at the LHC (00h20')	BARONE, Gaetano

### **Parallel 3: Heavy Ion / Hadrons (15:25-17:25)**

time	title	presenter
15:25	Coherent energy loss and forward production of hadrons in proton-nucleus collisions (00h20')	KOLEVATOV, Rodion
15:45	Identified charged hadron production in pp and Pb-Pb collisions with ALICE at the LHC (00h20')	VASILEIOU, Maria
16:05	Identified hadron production and study of collective phenomena in p-Pb collisions at the LHC with ALICE (00h20')	CORRALES MORALES, Yasser

### **Parallel 4: Astroparticle / Gravity/ Neutrinos (15:25-17:25)**

time	title	presenter
15:25	What could the LHC teach us on spacetime structure? (00h25')	TRIANAPHYLLOU, George
15:50	Search for the dark photon in $\pi^0$ decay (00h20')	PIANDANI, Roberto
16:10	Neutrinoless Double Beta Decay in GERDA (00h25')	HEISEL, Mark

### **Parallel 5: PP/ Experimental physics Neutrino (15:25-17:25)**

time	title	presenter
15:25	ICARUS T600: physics results and future activities (00h20')	ZANI, Andrea
15:45	Results from the Double Chooz experiment (00h20')	KANEDA, Michiru
16:05	Search for sterile neutrino mixing in the $\nu_\mu \rightarrow \nu_\tau$ appearance channel with the OPERA detector (00h20')	MAURI, Nicoletta
16:25	Search for Charged Lepton Flavour Violation with the MEG and MEG II experiments (00h20')	VENTURINI, Marco
16:45	Update on the Majorana Demonstrator (00h20')	BRADLEY, Adam

### **Parallel 6: Particle physics / Performance (15:25-17:25)**

time	title	presenter
15:25	Muon Reconstruction Performance in ATLAS at Run-II (00h20')	BERNARD, Nathan Rogers
15:45	Reconstruction and identification of tau leptons in CMS (00h20')	ROMEO, Francesco
16:05	Performance of the ATLAS track reconstruction (00h20')	MIGLIORANZI, Silvia

16:25	The reconstruction of jets, missing ET and boosted heavy particles with ATLAS in Run II (00h20')	SANTONI, Claudio
16:45	Performance of the photon reconstruction and identification in ATLAS (00h20')	HAMNETT, Phillip George
17:05	CMS detector performance (00h20')	NOURBAKHS, Shervin

### **Coffee break (17:25-17:45)**

#### **Parallel 1: Physics and Philosophy (17:45-19:15)**

time	title	presenter
17:45	The Universal Wave Function Interpretation of String Theory (00h25')	XIU, Rulin
18:10	Duality of Psychological and Intrinsic Time in Artworks (00h25')	MILOVANOVIĆ, Milosx
18:35	Einstein's Credo and modern physics (00h40')	NAUMANN, Thomas

#### **Parallel 2: Heavy ions / heavy flavour/ Lattice QCD (17:45-19:15)**

time	title	presenter
17:45	Open-charm production measurements with ALICE at the LHC (00h20')	PAGANO, Paola
18:05	Non-photonic electrons in central U+U collisions at STAR (00h20')	GAJDOŠOVÁ, Katarína
18:25	The magnetic polarizabilities and g-factor of the charged and neutral rho mesons in a strong magnetic field on the lattice (00h20')	SOLOVJEVA, Olga
18:45	Polarizability of pseudoscalar mesons from the lattice calculations (00h20')	LUSCHEVSKAYA, Elena

#### **Parallel 3: Heavy ion/ correlation (17:45-19:15)**

time	title	presenter
17:45	Bose–Einstein correlations of charged and neutral kaons in p-p and Pb-Pb collisions with the ALICE experiment at the LHC (00h20')	ROGOCHAYA, Elena
18:05	Investigation of Particle Coherence in Pb+Pb Collisions at LHC (00h20')	BRUSHEIM JOHANSSON, Bengt Henrik
18:25	Two-particle correlations using THERMINATOR model for BES program (00h20')	ZBROSZCZYK, Hanna

#### **Parallel 4: Theory QCD (17:45-19:15)**

time	title	presenter
17:45	Analytical Formulae linking Quark Confinement and Chiral Symmetry Breaking (00h20')	DOI, Takahiro
18:05	Chiral symmetry breaking of compactified (2+1)-dimensional Gross-Neveu model in presence of external magnetic field (00h20')	ZHOKHOV, Roman
18:25	A New Approach to Analytic, Non-Perturbative Gauge-Invariant QCD Renormalization is described, with applications to high energy elastic p-p scattering (00h20')	TSANG, Peter
18:45	Absence of the Gribov ambiguity in a quadratic gauge (00h20')	RAVAL, Haresh

#### **Parallel 5: Quantum theory (17:45-19:15)**

time	title	presenter
17:45	Schrödinger operator with delta'-interaction supported by non-closed curve (00h20')	JEX, Michal
18:05	Leaky quantum wires. On relation between geometry and spectrum (00h20')	KONDEJ, Sylwia
18:25	Interacting relativistic quantum dynamics for multi-time wave functions (00h20')	LIENERT, Matthias
18:45	New Quantum Effect: Emission of Cosmic X- or -rays by Moving Unstable Particles at Late Times (00h20')	URBANOWSKI, Krzysztof

### **Parallel 6: PP / SUSY (17:45-19:15)**

time	title	presenter
17:45	Searches for direct pair production of third generation squarks with the ATLAS detector (00h20')	ANDERS, John Kenneth
18:05	SUSY with the CMS experiment (00h25')	MASCIOVECCHIO, Mario
18:30	Searches for electroweak production of supersymmetric gauginos and sleptons with the ATLAS detector (00h20')	REN, Huan
18:50	Inclusive searches for squarks and gluinos with the ATLAS detector (00h20')	DEIGAARD, Ingrid

### **Poster session (19:30-20:30)**

title	presenter	board
<b>Opto-Box: Optical Modules and Mini-Crate for ATLAS Pixel and IBL Detectors (01h00')</b>	BERTSCHE, David Edwin	14
<b>First evidence of LPM effect in LHCf, an LHC experiment (01h00')</b>	DEL PRETE, Marina	6
<b>Massive Gravi-Electromagnetism in Terms of Octons (01h00')</b>	DEMIR, Suleyman	8
<b>Performance of the ALICE secondary vertex b-tagging algorithm (01h00')</b>	EYYUBOVA, Gyulnara KRAMARIK, Lukas	18
<b>Spinorial Space-Time and the origin of Quantum Mechanics (01h00')</b>	GONZALEZ-MESTRES, Luis	22
<b>Spinorial Regge Trajectories and Hagedorn-like temperatures (01h00')</b>	GONZALEZ-MESTRES, Luis	21
<b>Femtосcopy with unlike-sign kaons at STAR in 200GeV Au+Au collisions (01h00')</b>	LIDRYCH, Jindrich	5
<b>Commutative fuzzy geometry and Nonlinear Quantum Dynamics (01h00')</b>	MAYBUROV, Sergey	2
<b>On light dilaton extensions of the standard model (01h00')</b>	MEGIAS, Eugenio	13
<b>Search for long-lived neutral particles decaying into lepton jets in 20.3 fb<sup>-1</sup> proton-proton collisions at <math>\sqrt{s} = 8</math> TeV with the ATLAS detector (01h00')</b>	SCHIOPPA, Marco	19
<b>Modelling of interaction of material plane with spinor field in the framework of the Symanzik approach (01h00')</b>	SHUKHOBODSKAIA, Daria	10
<b>Antihydrogen dynamics in the AEGIS experiment (01h00')</b>	STROJEK, Izabela Maria	23
<b>Search for space charge effects in the ICARUS T600 LAr-TPC (01h00')</b>	TORTI, Marta	20
<b>Search for new particles in events with one lepton and missing transverse momentum in pp collisions at <math>\sqrt{s} = 8</math> TeV (00h20')</b>	TSIRINTANIS, Nikolaos	1
<b>False vacuum as a quantum unstable state (01h00')</b>	URBANOWSKI, Krzysztof	4
<b>On Discrete (Digital) Physics: as a Perfect Deterministic Structure for Reality - And the Fundamental Field Equations of Physics (01h00')</b>	ZAHEDI, Ramin	12

<b>Dual condensates at finite isospin chemical potential (01h00')</b>	ZHANG, Zhao	3
<b>Performance Studies of Micromegas Chambers for the New Small Wheel Upgrade Project (01h00')</b>	LEONTSINIS, Stefanos NTEKAS, Konstantinos	16
<b>Particles composition and interactions using the NUON Model (01h00')</b>	BRUN, Rene	15
<b>Muon reconstruction performance in ATLAS at Run-II (01h00')</b>	BARONE, Gaetano	11
<b>If God Plays Dice, Must We do the Same? Quantum Entanglement as a Deterministic Phenomenon (01h00')</b>	SULEIMAN, Ramzi	25
<b>Observation of resonant <math>J/\Psi_p</math> states in <math>\Lambda_b</math> decays (01h00')</b>	ADEVA, Bernardo	29
<b>Long range force and Y-Bosonic strings in Baryons (00h20')</b>	BAKRY, Ahmed	30

**Dinner (20:00-21:00)**

**Social event (21:00-22:00)**

## Thursday 27 August 2015

### **Plenaries: Session 1 (08:30-10:30)**

- Conveners: Kekelidze, Vladimir

time	title	presenter
08:30	Thermalization in strongly coupled confining gauge theories (00h30')	KYRITSIS, Ilias
09:00	ALICE overview (00h30')	RASANEN, Sami Sakari
09:30	Overview of recent ATLAS results (00h30')	DJAMA, Fares DJAMA, Fares
10:00	CMS overview (00h30')	DORIGO, Tommaso

### **Coffee break (10:30-11:00)**

### **Plenaries: Session 2 (11:00-12:45)**

- Conveners: Dorigo, Tommaso

time	title	presenter
11:00	Overview of ATLAS Standard Model Measurements (00h20')	BUTTINGER, Will
11:20	Higgs results from CMS (00h20')	MANDEL, Rainer
11:40	Higgs results from ATLAS (00h20')	CHEN, Xin
12:00	Supersymmetry searches in ATLAS (00h20')	KUWERTZ, Emma Sian
12:20	Top quark physics from run 1 of the LHC (00h25')	ONOFRE, Antonio

### **Lunch (12:45-14:05)**

### **Plenaries: Session 3: Plenaries: Session 3 (14:05-15:25)**

- Conveners: Blaschke, David

time	title	presenter
14:05	Interaction of Relativistic Highly Charged Ions with crystals: from collisions towards high resolution spectroscopy (00h20')	BRAUNING-DEMIAN, Angela
14:25	The MoEDAL Experiment at the LHC - Exploring Beyond the Standard Model (00h20')	PINFOLD, James
14:45	Results from the OPERA experiment at the CNGS beam (00h20')	MAURI, Nicoletta
15:05	Educational projects (00h20')	KOURKOUDELIS, Christine

### **Coffee break (15:25-16:00)**

### **Parallel 1: Particle, Cosmology, Gravity (16:00-17:40)**

time	title	presenter
16:00	Double unification of particles with fields and gravity with electricity under Aristotle's nonempty space can rid of Coulombs divergences and metric singularities (00h25')	BULYZHENKOV, Igor
16:25	On 3D minimal massive gravity (00h20')	M. QAEMMAQAMI, Mohammad

16:45	Advanced Virgo - Status & Perspective of the upgraded Gravitational Wave detector (00h20')	VAN BAKEL, Niels
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### **Parallel 2: Particle physics/ HERA (16:00-17:40)**

time	title	presenter
16:00	Recent HERA results on hard QCD and heavy flavour production (00h25')	SOPICKI, Pawel
16:25	Recent HERA results on diffraction and exclusive final states (00h25')	SOLANO, Ada

### **Parallel 3: Heavy Ion (16:00-17:40)**

time	title	presenter
16:00	Anomalous transport in second order hydrodynamics (00h25')	MEGIAS, Eugenio
16:25	Anisotropic Flow Fluctuations in Pb+Pb collisions at LHC (HYDJET++ Model) (00h25')	BRAVINA, Larisa
16:50	Quarkonia with STAR at RHIC (00h25')	KABANA, Sonja

### **Parallel 4: Particle physics / Theory (16:00-17:40)**

time	title	presenter
16:00	Aspects of meson condensation (00h25')	MAMMARELLA, Andrea
16:25	On the base quantities of oscimodes of valence $q' qbar$ and $3q$ states (00h25')	MINKOWSKI, Peter
16:50	Phenomenology of charmed mesons in a chiral symmetric model (00h25')	ESHRAIM, Walaa

### **Parallel 5: Applied physics (16:00-17:40)**

time	title	presenter
16:00	New Ferroelectric Transitions in Magnetic Hydroxyl Salts $Co_2(OD)_3Cl$ and $Co_2(OD)_3Br$ (00h25')	ZHENG, Xu-Guang
16:25	New frontiers in photonic functions (00h25')	XU, Chao-Nan
16:50	Precision X-ray spectroscopy of kaonic atoms as a probe of kaon-nucleon/nuclei interaction at low energy (00h20')	SHI, Hexi

### **Parallel 6: Beyond the Standard model (16:00-17:40)**

time	title	presenter
16:00	Beyond-the-Standard Model Higgs Physics using the ATLAS Experiment (00h20')	TRUONG, Thi Ngoc Loan
16:20	Oblique corrections in the Dine-Fischler-Srednicki axion model (00h20')	KATANAEVA, Alisa
16:40	Searches for new physics with lepton flavors and multi-lepton final states with the ATLAS detector (00h20')	MADAR, Romain
17:00	The Compact Linear Collider study (00h20')	CATALAN LASHERAS, Nuria

### **Conference dinner (20:00-23:59)**

## Friday 28 August 2015

### **Plenaries: Session 1 (08:30-10:25)**

- Conveners: Koskinen, David Jason

time	title	presenter
08:30	Highlights from Super-Kamiokande (00h25')	OKUMURA, Kimihiro
08:55	Highlights from T2k (00h25')	DABROWSKA, Anna
09:20	Recent Results from the Daya Bay Reactor Neutrino Experiment (00h20')	CHU, Ming Chung
09:40	Recent Borexino results and prospects for the near future (00h20')	D'ANGELO, Davide
10:00	An Experimental Programme at the DUNE Experiment (00h25')	NOWAK, Jaroslaw

### **Coffee break (10:25-10:45)**

### **Plenaries: Session 2 (10:45-12:50)**

- Conveners: Kopeliovich, Boris

time	title	presenter
10:45	Heavy flavors in nucleus-nucleus and proton-nucleus (00h25')	NARDI, Marzia
11:10	Heavy-flavour measurements at the LHC (00h25')	KWEON, Min Jung
11:35	Open heavy flavor at RHIC (00h25')	BIELCIK, Jaroslaw
12:00	Review of recent results on jet physics in Heavy Ion from LHC (00h25')	SHABETAI, Alexandre
12:25	Transport phenomena in a plasma of confining gluons (00h25')	RYBLEWSKI, Radoslaw

### **Lunch (12:50-14:10)**

### **Plenaries: Session 3: Plenaries: Session 3 (14:10-15:10)**

- Conveners: Stock, Reinhard

time	title	presenter
14:10	Heavy Ion Results Highlights (STAR) (00h20')	RUSNAKOVA, Olga
14:30	Recent highlights of PHENIX at RHIC (00h20')	NOVITZKY, Norbert
14:50	Angular correlations in pp collisions - overview (00h20')	JANIK, Malgorzata Anna

### **Coffee break (15:10-15:30)**

### **Plenaries: Session 4: Plenaries: Session 4 (15:30-16:50)**

- Conveners: Matthews, John

time	title	presenter
15:30	Highlights of DAMA/LIBRA (00h20')	INCICCHITTI, Antonella
15:50	AGN observations with a 100 GeV threshold using H.E.S.S.II (00h20')	TAYLOR, Andrew
16:10	Recent physics results from BaBar (00h20')	FINOCCHIARO, Giuseppe
16:30	Physics and Philosophy: Tao Source Physics (00h20')	XIU, Rulin

### **Social event (18:30-23:59)**



## Saturday 29 August 2015

### Plenaries: Session 1 (08:30-10:30)

- Conveners: Specht, Hans

time	title	presenter
08:30	Discrete Symmetries CP, T, CPT (00h30')	BERNABEU, Jose
09:00	Neutrino Oscillation and Resolving the Neutrino Mass Ordering (00h30')	KOSKINEN, David Jason
09:30	Status of the NICA project at JINR (00h30')	KEKELIDZE, Vladimir
10:00	Electromagnetic probes of QCD matter: an experimental overview (00h30')	GALATYUK, Tetyana

### Coffee break (10:30-11:00)

### Plenaries: Session 2 (11:00-13:00)

- Conveners: Prof. Sorin, Alexander

time	title	presenter
11:00	Determination of $\alpha_s$ from the QCD static energy (00h30')	VAIRO, Antonio
11:30	Exotics with Effective Field Theories (00h30')	BRAMBILLA, Nora
12:00	New quantum reality as revealed by weak measurements (00h30')	AHARONOV, Yakir
12:30	Big Bang, inflation, standard Physics... and the potentialities of new Physics and alternative cosmologies (00h30')	GONZALEZ-MESTRES, Luis

### Lunch (13:00-14:20)

### Plenaries: Session 3 (14:20-15:25)

- Conveners: Dijkstra, Hans

time	title	presenter
14:20	Overview of the CLIC detector and its physics potential (00h25')	PETRIC, Marko
14:45	A search for very-high-energy emission by gamma ray bursts with HAWC (00h20')	TABOADA, Ignacio
15:05	Prospects of new physics searches short and long term future (00h20')	METCALFE, Jessica

### Coffee break (15:25-15:45)

### Plenaries: Session 4 (15:45-17:15)

- Conveners: Vairo, Antonio

time	title	presenter
15:45	Future Accelerators at the High Energy Frontier (00h30')	TSESMELIS, Emmanuel
16:15	Perspectives for New Physics at the LHC (00h30')	DJOUADI, Abdelhak
16:45	Quark Matter in Compact Stars and in Heavy-Ion Collisions (00h30')	BLASCHKE, David

### Closing session (17:15-17:35)

time	title	presenter
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17:15	Closing (00h20')	KABANA, Sonja
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**Coffee break (18:00-18:30)**

**Social event (18:30-21:00)**

**Dinner (21:00-22:30)**

## **Sunday 30 August 2015**

**Social event (06:00-19:00)**

**Dinner (20:00-21:30)**

**Social event (21:30-22:30)**