

PASC WINTER SCHOOL

SESIMBRA - PORTUGAL, 17 -- 19 December 2008

Preliminary Programme (on 17 December)

Lectures

| 17 December | 18 December | 19 December |
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| 9:00 – 9:50 Alexey Smirnov Neutrino Physics | 9:00 – 9:50 Alexey Smirnov Neutrino Physics | 9:00 – 9:50 Alexander Kamenshtchik Introduction to Cosmology |
| 9:50 – 10:40 António Masiero Beyond SM, Dark Matter-Dark Energy | 9:50 – 10:40 Nestor Armesto Dense matter QCD | 9:50 – 10:40 Nestor Armesto Dense matter QCD |
| 10:40 – 11:00 Coffee Break | 10:40 – 11:00 Coffee Break | 10:40 – 11:00 Coffee Break |
| 11:00 – 11:50 Alexander Kamenshtchik Introduction to Cosmology | 11:00 – 11:50 Marzio Nessi LHC: A Global Overview | 11:00 – 11:50 Marzio Nessi LHC: A Global Overview |
| 11:50 – 12:40 António Masiero Beyond SM, Dark Matter-Dark Energy | 11:50 – 12:40 Etienne Parizot High Energy Cosmic Rays | 11:50 – 12:40 Etienne Parizot High Energy Cosmic Rays |
| 12:40 – 14:00 Lunch Break | 12:40 – 14:00 Lunch Break | 12:40 – 14:00 Lunch Break |
| | | 15:00 Chris Quigg Final Lecture Particle Physics, Astroparticles and Cosmology |

Change of Program in the Afternoon (on 17 December)

Post-Doc and Student Contributions

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| 14:00 José Guilherme Milhano Challenges in high energy QCD evolution | 14:00 David Emmanuel-Costa Texture Zeros | 14:00 António Onofre Physics studies with first data at the LHC |
| 14:30 Marco Cardoso Three gluon static potential in lattice QCD | 14:30 Maria Luisa F.G.V. Arruda The GAW project | 14:30 Pedro Ferreira da Silva Probing new physics with the heavy flavor content of $t\bar{t}$ decays using the CMS detector |
| 14:45 Hugo Serôdio A simple A4 model: masses, mixing and more. | 14:45 Pedro Assis GAW: trigger and data acquisition | 14:45 Pasquale Musella Study of the WW-gamma gauge coupling with the CMS detector at the LHC |
| 15:00 João Esteves Leptogenesis in an A ₄ model | 15:00 Miguel Pato The freestreaming mass and gamma-rays from dark matter annihilations. | 15:00 Chris Quigg Final Lecture Particle Physics, Astroparticles and Cosmology |
| 15:15 David Tran Indirect Signatures of Gravitino Dark Matter with Broken R-Parity | 15:15 Eva Santos, The AMIGA project | |
| 15:30 Christoph Weniger Hidden gauginos of an unbroken U(1): Cosmological constraints and phenomenological prospects | 15:30 Jorge Bruno Morgado Virtual modelling and simulation of the HI-SCALE instrument aboard the Ulysses spacecraft | |
| 15:45 Coffee Break | 15:45 Coffee Break | |
| 16:15 Oleg Tsupko Gravitational radiospectrometer | 16:15 Yuri Krivosheyev Monte-Carlo code development for different astrophysical problems | |
| 16:30 Jorge Rocha Evaporating large black holes in anti-de Sitter spacetimes. | 16:30 Ruben M.S. Conceição Universal Shower Profile | |
| 16:45 Mariam Bouhmadi-Lopez f(R) brane cosmology | 16:45 Rui Pereira AMS cosmic data tests: Reconstruction of cosmic muons using the RICH detector | |
| 17:00 Catarina Bastos, Noncommutative Quantum Mechanics | 17:00 David Tlusty A new muon telescope at STAR Experiment | |
| 17:15 Domingos Barbosa The status of the GEM project | 17:15 Marcelo Jordão, Tau Reconstruction Identification in CMS for $t\bar{t}$ events | |
| | 17:30 Nuno Almeida Measurement of the $t\bar{t}$ cross section in the $e\tau$ and $\mu\tau$ dilepton channel at the LHC | |
| | 17:45 João Pela The Discovery potential for Extra Dimensions in the four lepton final state at the LHC | |
| | 20.00** Gathering in front of the hotel. Bus ⇒ Restaurant Dinner Party | **← Dinner Party The dinner party of the School will be on Thursday 18 of December , at 20.30, in restaurant <u>O Peralta</u> in Aldeia do Meco, a small village in the neighbourhood of Sesimbra: <u>www.operalta.com</u> ←A bus will transport the participants from the hotel to the restaurant (and vice versa). The bus leaves at 20.00. |