

International Symposium

Advances in
Dark Matter and Particle Physics

Sunday 23 October 2016 - Thursday 27 October 2016
Messina (Italy)

Programme

Sunday 23 October 2016

18:00-19:30 **Registration** (Royal Palace Hotel)

19:30-21:00 **Welcome Reception**

Monday 24 October 2016

09:00-09:10 **Opening** (Messina University)

09:10-11:10 ***DM Invisible Search*** Convener: M. Battaglieri

09:10-09:40 Valente P. *Status of positron extracted beams*

09:40-10:10 Raggi M. *PADME at LNF experiment*

10:10-10:40 Curciarello F. *Dark Searches and $\gamma\gamma$ Physics at KLOE*

10:40-11:10 Rachek I. *Status of the experiment on dark photon search at VEPP-3*

Coffee Break (11:10-11:30)

11:30-13:00 ***Physics at Colliders*** Convener: H. Czyz

11:30-12:00 Badalà A. *Overview of ALICE results on hadronic resonance production*

12:00-12:30 Passemar E. *The Physics of Hadronic Tau decays*

12:30-13:00 Fang S. *Light mesons at BES3*

Lunch Break (13:30-14:45)

15:00-16:45 ***Tools*** Convener: P. Valente

15:00-15:25 Kozhuharov V. *Bg in annihilation/fixed target experiment*

15:25-15:50 Ivantchenko V. *Geant4 Standard and Low Energy EM libraries*

15:50-16:15 Czyz H. *Monte Carlo generators for hadron physics: updates on Phokhara and Ekhara generators*

16:15-16:35 Carloni Calame C.M. *Radiative corrections in e^+e^- collisions with the BabaYaga Event Generator*

16:35-16:45 Discussion

Coffee Break (16:45-17:05)

17:05-18:05 Battaglieri M. **Public lecture** (In Italian)
Una Luminosa Fabbrica di Materia Oscura

Tuesday 25 October 2016

- 09:00-12:00 ***DM Fixed Target*** Convener: J. Alexander
- 09:00-09:30 Franklin G. *APEX experiment at JLab which will take production data in spring 2018*
- 09:30-10:00 De Napoli M. *The HPS Experiments*
- 10:00-10:30 Bondi M. *The Beam Dump Experiment (BDX) @ JLAB*
- 10:30-11:00 Mans J. *The Light Dark Matter Experiment (LDMX)*
- Coffee Break (11:00-11:30)
- 11:30-12:00 Wojtsekhowski B. *JLab dark photon search experiment APEX and the speed of light anisotropy investigation*
- 12:00-13:00 ***DM at Colliders*** Convener: V. Druzhinin
- 12:00-12:30 Alexander J. *MMAAPS at Cornell*
- 12:30-13:00 Oberhof B. *Recent results on search for new physics at BABAR*
- Lunch Break (13:30-14:45)
- 15:00-16:30 ***Extended Searches*** Convener: B. Wojtsekhowski
- 15:00-15:30 Krasznahorkay A. *The 8Be anomaly and the fifth force*
- 15:30-16:00 Galon I. *Protophobic Fifth Force*
- 16:00-16:30 Piacentino G.M. *Measuring gravitational effects on antimatter in space*
- Coffee Break (16:30-17:00)
- 17:00-18:00 Round Table & Discussion
- Social Dinner**
(20:30 - 22:30)

Wednesday 26 October 2016

- 09:00-11:00 ***Extended Search*** Convener: V. Kozhuharov
- 09:00-09:30 Wojtsekhowski B. *DM at Asymmetric Colliders*
- 09:30-10:00 Arbuzova E. *General features of spontaneous baryogenesis*
- 10:00-10:30 Afanasev A. *Searching for Dark Matter Candidates with Compton Gamma-Sources*
- 10:30-11:00 Aghion S. *Positronium studies within the QUPLAS experiment*
- Coffee Break (11:00-11:30)

- 11:30-13:00 ***SM and Beyond*** Convener: G. Franklin
- 11:30-12:00 Dolgov A. *Problems with the sources of the observed gravitational waves and their resolution*
- 12:00-12:30 Zhuridov D. *Excited lepton baryogenesis*
- 12:30-13:00 Liyanage N. *A high performance tracker in the forward angle experiments*
- Lunch Break (13:30-14:45)
- 15:00-16:15 ***(g-2) μ Anomaly*** Convener: M. Raggi
- 15:00-15:25 Carloni Calame C.M. *Measuring the Leading Order Hadronic Contribution to the Muon g-2 in the Space-like Region*
- 15:25-15:50 Tracz S. *X_{c1} and X_{c2} production at e^+e^- colliders*
- 15:50-16:15 Popov A. *Recent results from the CMD-3 detector*
- Coffee Break (16:20-16:50)
- 17:00-18:00 PADME/MMPAS closed meeting

Thursday 27 October 2016

- 09:00-11:05 ***Physics at Colliders / Low Energy*** Convener: G. Mandaglio
- 09:00-09:25 Druzhinin V. *Study of e^+e^- annihilation to hadrons at low energies at BABAR*
- 09:25-09:50 Korol A. *Recent results from the SND detector*
- 09:50-10:15 Steffen O. *The η' physics program at A2@Mainz*
- 10:15-10:40 Costanza S. *Doubly-polarised pion photoproduction on the nucleon at MAMI*
- 10:40-11:05 Martel P. *Compton Scattering Program
Studying Nucleon Polarizabilities*
- 11:05-11:20 Closout

Coffee Break (11:20-11:40)