



TAUP 2015

XIV International Conference on
Topics in Astroparticle and Underground Physics

7-11 September 2015 – Torino – Italy

 UNIVERSITÀ DEGLI STUDI DI TORINO	 Istituto Nazionale di Fisica Nucleare	 Laboratori Nazionali del Gran Sasso
 INAF ISTITUTO NAZIONALE DI ASTROFISICA NATIONAL INSTITUTE FOR ASTROPHYSICS	 agenzia spaziale italiana	 CONSORZIO INTERUNIVERSITARIO PER LA FISICA SPAZIALE
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Cosmology

- S. Pastor (IFIC/CSIC/University of Valencia, Spain)
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Dark Matter

- E. Armengaud (CEA/Saclay, France)
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High Energy Astrophysics and Cosmic Rays

- A. Chiavassa (University of Torino, Italy)
B. Dingus (LANL, USA)
S. Gabici (APC, Paris, France)
E. Roulet (Centro Atomico Bariloche, Argentina)

Neutrinos

- S. Choubei (Harish-Chandra Research Institute, Allahabad, India)
C. Giunti (INFN/Torino, Italy)
M. Laveder (University of Padova, Italy)
D. Naumov (INR, Dubna, Russia)
Z.Z. Xing (Beijing Institute of High Energy Physics, China)
K. Zuber (TU Dresden, Germany)

Gravitational Waves

- V. Fafone (University of Roma Tor Vergata, Italy)
E. Katsavounidis (MIT, USA)

Outreach and Education

- M. Cirilli (CERN)
A. Ferrari (University of Torino, Italy)



General Information

Registration Desk - Opening hours:

Sunday	September 6, 2015	16:00 - 20:00	Welcome reception
Monday	September 7, 2015	08:00 - 18:00	
Tuesday	September 8, 2015	08:00 - 18:00	
Wednesday	September 9, 2015	08:30 - 18:00	
Thursday	September 10, 2015	08:30 - 18:00	
Friday	September 11, 2015	08:30 - 12:00	

Members of the Organizing Committee can be identified by the yellow badge.

Submission of talks:

Presentations will be delivered through dedicated computers (Ubuntu) set up by the organizers. Prepare your slides in PDF format and name the PDF of your slides as:

yourSurname_Session.pdf

Send it to the email address that corresponds to your session, as detailed below, no later than two hours before your presentation.

Plenary speakers taup2015.plenary@gmail.com

Parallel sessions:

Dark matter taup2015.darkmatter@gmail.com

Neutrinos taup2015.neutrino@gmail.com

Cosmology taup2015.cosmology@gmail.com

High energy astrophysics: taup2015.CR@gmail.com

Gravitational waves taup2015.GW@gmail.com

Outreach taup2015.outreach@gmail.com

Program online:

The program can also be accessed online dynamically through the Conference webpage: <http://taup2015.to.infn.it>



Conference Proceedings

Proceedings of the TAUP2015 conference will be published online in the open access *Journal of Physics: Conference Series*, which is edited by the *Institute of Physics Publishing (IOP)*. All contribution will be peer-reviewed by the Proceedings Editorial Board (N. Fornengo, M. Regis, H. Zechlin), who can be further assisted by external referees appointed by the Organizing Committee.

The maximal number of pages for the Proceedings contributions are:

Plenary talks:	8 pages
Parallel sessions talks:	5 pages
Posters:	5 pages

Instructions on how to prepare and submit your contribution will be available on Conference webpage: <http://taup2015.to.infn.it/proceedings>.



General Schedule

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	09:00 - 13:00 Plenary	09:00 - 13:00 Plenary	09:00 - 13:00 Plenary	09:00 - 13:00 Plenary	09:00 - 13:00 Plenary
	Lunch	Lunch	Lunch	Lunch	
	14:30 - 19:00 Parallels	14:30 - 19:00 Parallels	14:30 - 19:00 Parallels	14:30 - 19:00 Parallels	
16:00 - 20:00 Registration (welcome reception)		19:00 - 20:30 Posters (with aperitif)	20:30 - 23:30 Dinner		
19:30 Planetarium show				17:30 Public Lecture	

All events occur at the Congress Center, except the social dinner and the two outreach events (see maps at the end of the brochure):

Social Dinner: Palazzo Cavour, via Cavour 8

Planetarium show: Torino Planetarium Infini.to, Via Osservatorio 30, Pino Torinese

Phantom of the Universe: the Hunt for Dark Matter

Executive Producer: Michael Barnett (Lawrence Berkeley National Laboratory)

Joao Pequeno (CERN Media Lab)

Marco Brusa (Torino Planetarium Infini.to)

Public Lecture: Accademia delle Scienze di Torino, Via Accademia delle Scienze 6, Torino (same entrance as the Egyptian Museum)

L'invisibile luce delle stelle: neutrini dallo spazio e onde gravitazionali

Eugenio Coccia (University of Roma Tor Vergata and GSSI)



PLENARY SESSIONS

Plenary talks are held in Sala Agnelli (428 seats)
and broadcasted live in Sala Piemonte (173 seats)



Plenary Session - Monday 7 September 2015

09:00–09:15	OPENING
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COSMOLOGY	
Chair: A. Bottino (Accademia delle Scienze di Torino)	
09:15–09:45	Anthony Challinor (University of Cambridge, UK) The cosmic microwave background radiation
09:45–10:15	Sarah Bridle (University of Manchester, UK) Surveys of the dark Universe
10:15–10:45	Yvonne Wong (University of New South Wales, Australia) Impact of cosmological observables on particle physics

Coffee Break

HIGH ENERGY ASTROPHYSICS I + OPEN DATA	
Chair: A. Neronov (University of Geneva)	
11:15–11:45	Michel Spiro (CEA/Saclay, France) ApPIC/IUPAP, APIF and Open Data Policy
11:45–12:15	Julie McEnery (NASA Goddard and University of Maryland, USA) Gamma-ray astronomy from space
12:15–12:45	Dieter Horns (University of Hamburg, Germany) Gamma-ray astronomy from the ground



Plenary Session - Tuesday 8 September 2015

HIGH ENERGY ASTROPHYSICS II	
Chair: T. Gaisser (Bartol Research Institute)	
09:00–09:30	Yoshiki Tsunetsada (Tokyo Institute of Technology, Japan) Cosmic-rays from the ground
09:30–10:00	Laurent Derome (LPSC, Grenoble, France) Cosmic-rays from space
10:00–10:30	Albrecht Karle (University of Wisconsin-Madison, USA) High-energy neutrinos
10:30–11:00	Charles Dermer (Naval Research Lab, Washington, DC, USA) Theory of high energy messengers

Coffee Break

DARK MATTER I	
Chair: A. Masiero (University of Padova and INFN)	
11:30–12:00	Paolo Gondolo (University of Utah, Salt Lake City, USA) An assessment of the WIMP DM paradigm and its alternatives
12:00–12:30	Steven Lowette (Vrije Universiteit Brussels, Belgium) Accelerator searches for New Physics in the context of dark matter
12:30–13:00	Leslie Rosenberg (University of Washington, Seattle, USA) Axions



Plenary Session - Wednesday 9 September 2015

NEUTRINO PHYSICS I	
Chair: G. Raffelt (Max Planck Institute for Physics, Munich)	
09:00–09:30	Alexei Smirnov (MPIK Heidelberg, Germany) The landscape of neutrino physics
09:30–10:00	Antonio Palazzo (MPP, Munich, Germany) Sterile neutrinos
10:00–10:30	Susanne Mertens (LBNL, Berkeley, USA) Absolute neutrino masses

Coffee Break

DARK MATTER II	
11:00–11:30	Matthias Steinmetz (Leibniz Inst. für Astrophysik, Potsdam, Germany) Dark matter distribution on small scales
11:30–12:00	Shin'ichiro Ando (University of Amsterdam, The Netherlands) Dark matter indirect searches: multi-wavelength and anisotropies
12:00–12:30	Marco Cirelli (Institute de Physique Theorique, CEA/Saclay, France) Dark matter indirect searches: charged cosmic rays



Plenary Session - Thursday 10 September 2015

NEUTRINO PHYSICS II	
Chair: D. Sinclair (Carleton University, Ottawa)	
09:00–09:30	Jun Cao (IHEP, Beijing, China) Reactor neutrinos: hierarchy measurements and anomalies
09:30–10:00	Jonathan Link (Virginia Tech, USA) Short baseline experiments
10:00–10:30	Mauro Mezzetto (INFN Padova, Italy) Long baseline experiments
10:30–11:00	Oliviero Cremonesi (University of Milano Bicocca, Italy) Neutrinoless double beta decay

Coffee Break

DARK MATTER III	
Chair: F.T. Avignone (University of South Carolina)	
11:30–12:00	Daniel Akerib (SLAC, USA) Dark matter direct detection: noble fluids
12:00–12:30	Pierluigi Belli (INFN Roma Tor Vergata, Italy) Dark matter direct detection: crystals
12:30–13:00	Viktor Zacek (Universite de Montreal, Canada) Dark matter direct detection: threshold detectors and new techniques



Plenary Session - Friday 11 September 2015

GRAVITATIONAL WAVES	
Chair: T. Kajita (Institute for Cosmic Ray Research, University of Tokyo)	
09:00–09:30	Hartmut Grote (AEI, Hannover, Germany) Overview and status of advanced interferometers
09:30–10:00	Massimo Cerdonio (INFN Padova, Italy) LISA Pathfinder and the future of GW detection from space
10:00–10:30	Marica Branchesi (University of Urbino, Italy) Multi-messenger astronomy: neutrinos, photons, cosmic rays and gravitational waves

Coffee Break

NEUTRINO PHYSICS III + UNDERGROUND LABS	
Chair: A. Mc Donald (Queen's University, Kingston)	
11:00–11:30	Basudeb Dasgupta (Tata Institute, Mumbai, India) Neutrinos and supernovae
11:30–12:00	Livia Ludhova (INFN Milano, Italy) Low-energy neutrinos: solar, geo, sources
12:00–12:30	Stefano Ragazzi (LNGS, Italy) Underground Laboratories

12:30–12:45	CLOSING AND FAREWELL
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PARALLEL SESSIONS



Parallel Sessions Schedule

Monday 7 September 2015

Room	Agnelli	Piemonte	Torino	Piramide	Spagna	Francia
14:30-16:30	Dark Matter A	Neutrinos A	Dark Matter B	Neutrinos B	Outreach	Cosmology
17:00-19:00	Dark Matter A	Neutrinos A	Dark Matter B	Neutrinos B	High Energy	Cosmology

Tuesday 8 September 2015

Room	Agnelli	Piemonte	Torino	Piramide	Spagna	Francia
14:30-16:30	Dark Matter A	Neutrinos A	Dark Matter B	Neutrinos B	High Energy	GR Waves
17:00-19:00	Dark Matter A	Neutrinos A	Dark Matter B	Neutrinos B	High Energy	Cosmology
19:00-20:30	Posters (with italian aperitif)					

Wednesday 9 September 2015

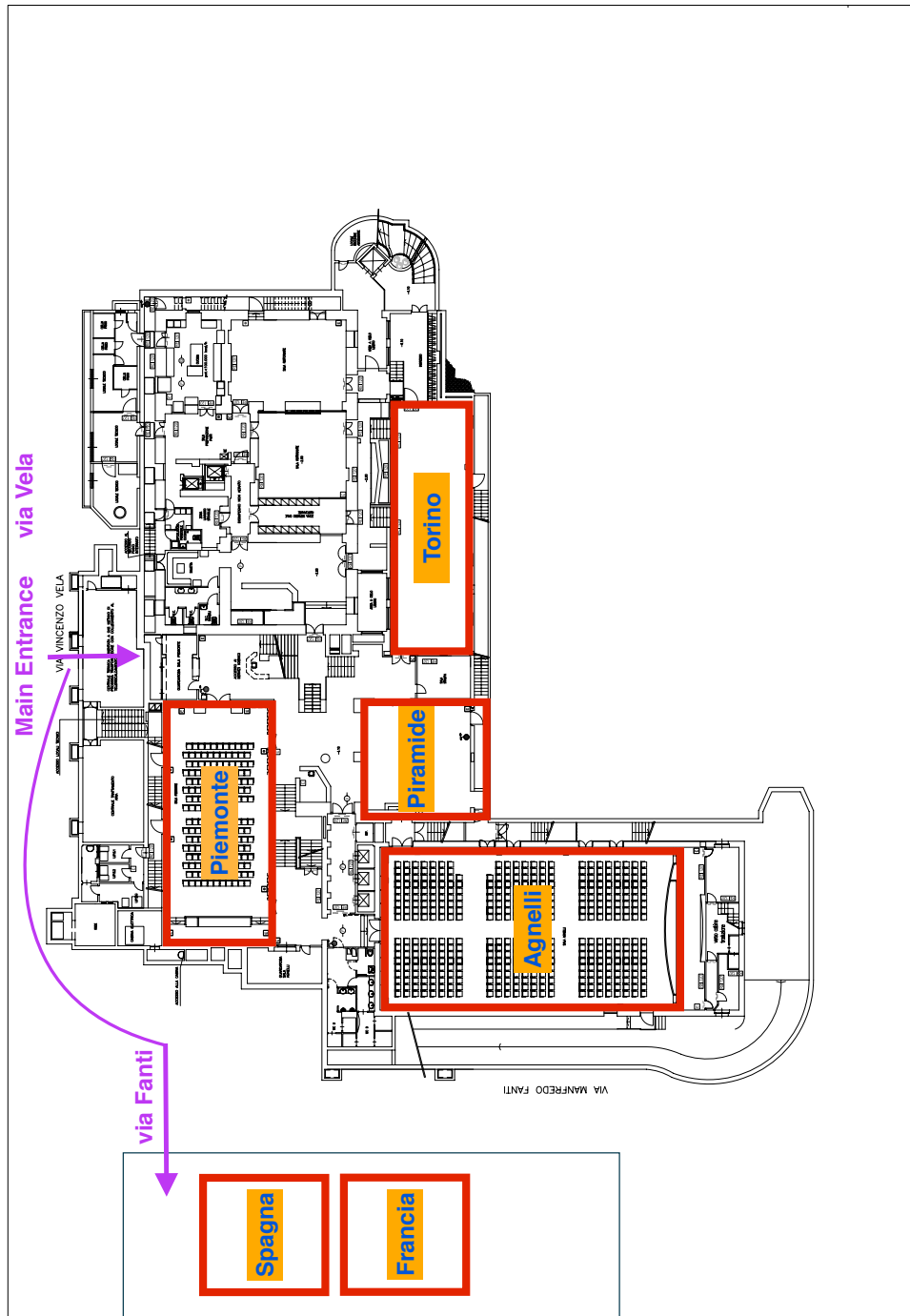
Room	Agnelli	Piemonte	Torino	Piramide	Spagna	Francia
14:30-16:30	Dark Matter A	Neutrinos A	Dark Matter B	Neutrinos B	High Energy	GR Waves
17:00-19:00	Dark Matter A	Neutrinos A	Dark Matter B	Neutrinos B	High Energy	GR Waves

Thursday 10 September 2015

Room	Agnelli	Piemonte	Torino	Piramide	Spagna	Francia
14:30-16:30	Dark Matter A	Neutrinos A	Dark Matter B	Neutrinos B	High Energy A	High Energy B
17:00-19:00	Dark Matter A	Neutrinos A	Dark Matter B	Neutrinos B	High Energy A	High Energy B



Parallel Sessions Rooms





Parallel Session Dark Matter



Dark Matter A – Monday 7 September 2015	
WIMP Direct Detection Results	
14:30–14:50	Marco Garbini (Bologna University) Status of the Xenon Project
14:50–15:10	Russell Neilson (Drexel University) Dark Matter Search Results from PICO-60 and PICO-2L
15:10–15:30	Alastair Currie (Imperial College) Updated WIMP search results from the 2013 LUX dataset
15:30–15:50	Silvia Scorza (Karlsruhe Institute of Technology) EDELWEISS-III experiment: status and first low WIMP mass results
15:50–16:10	Stefano Davini (Gran Sasso Science Institute) The DarkSide program at LNGS: update and outlook
16:10–16:30	Federica Petricca (MPI fur Physik Munchen) New Results on Low Mass WIMPs from the CRESST-II Experiment

Coffee Break

Dark Matter A – Monday 7 September 2015	
WIMP Direct Detection: Directionality and Other Techniques	
17:00–17:20	Michael Leyton (Royal Holloway, University of London) Directional Dark Matter Detection with the DMTPC experiment
17:20–17:35	Francisco Javier Gracia Garza (Universidad de Zaragoza) TRES-DM, a low background Micromegas-based TPC for low mass WIMP detection
17:35–17:50	Natalia Di Marco (LNGS) NEWS
17:50–18:05	Vincenzo Caracciolo (LNGS) The ADAMO Project and Developments
18:05–18:20	Michael Clark (Queen's University) Sensitivity of Alkali Halide Cryogenic Scintillation-Phonon Detectors to WIMP Signals
18:20–18:40	Paolo Privitera (University of Chicago) Status of the DAMIC experiment at SNOLAB
18:40–19:00	Qian Yue (Tsinghua University) Status and prospects of CDEX
19:00–19:15	Pietro Giampa (Queen's University) In-situ Surface Contamination Removal and Cool-down Process of the DEAP-3600 Experiment



Dark Matter B – Monday 7 September 2015	
DM Theory and Phenomenology	
14:30–14:50	Miguel Peiro (FT-UAM/CSIC, Madrid) Isospin violating dark matter in Stueckelberg portal scenarios
14:50–15:10	Riccardo Catena (Institute for theoretical physics, University of Gottingen) Effective theories for dark matter-nucleon interactions
15:10–15:30	Sebastian Liem (GRAPPA Institute, University of Amsterdam) Global scans of combined EFT operators
15:30–15:50	Oleg Ruchayskiy (EPFL, Lausanne) Super-weakly interacting dark matter
15:50–16:10	Luca Visinelli (University of Bologna) Kinetic decoupling of WIMPs: analytic expressions
16:10–16:30	Nassim Bozorgnia (GRAPPA Institute, University of Amsterdam) Predictions of N-body simulations for direct dark matter detection

Coffee Break

Dark Matter B – Monday 7 September 2015	
DM Indirect Searches	
17:00–17:20	Roberto Lineros (Instituto de Fisica Corpuscular - U.Valencia/CSIC) Radiative neutrino mass generation from WIMP dark matter
17:20–17:40	Lina Necib (MIT, USA) (In) direct detection of boosted dark matter
17:40–18:00	Giorgio Arcadi (LPT Orsay) Impact of Dark Matter Direct and Indirect Detection on simplified Dark Matter Models
18:00–18:20	Mattia Di Mauro (Torino University) Isotropic diffuse gamma ray background: emission from extragalactic sources VS dark matter annihilating particles
18:20–18:40	Mattia Fornasa (GRAPPA Institute (University of Amsterdam)) Dissecting the Diffuse Gamma-Ray Background
18:40–19:00	Vincent Bonnivard (LPSC/IN2P3, Grenoble) Dark matter annihilation factors in the Milky Way's dwarf spheroidal galaxies



Dark Matter A – Tuesday 8 September 2015	
WIMP Direct Detection Results	
14:30–14:50	Jianglai Liu (Shanghai Jiao Tong University) The PandaX Experiment and the Results from the Full Exposure of PandaX-I
14:50–15:10	Mark Pepin (University of Minnesota) The CDMSSlite Experiment
15:10–15:30	Kazuyoshi Kobayashi (ICRR, University of Tokyo) Direct Dark Matter Search with XMASS
15:30–15:50	Antonino Pullia (University of Milano Bicocca) MOSCAB
15:50–16:10	Luke Goetzke (Columbia University) Using XENON100 Data to Probe Electronic Recoils as an Explanation of the DAMA/LIBRA Anomaly
16:10–16:30	Berta Beltran (Univeristy of Alberta) Early studies of detector optical calibrations for DEAP-3600

Coffee Break

Dark Matter A – Tuesday 8 September 2015	
WIMP Direct Detection	
17:00–17:20	Ardavan Ghassemi (Hamamatsu Photonics USA) Multi-Pixel Photon Counter (MPPC) for Detection of Scintillation Spectra of Liquid Argon and Xenon
17:20–17:40	Peter Redl (Stanford University) Results from a maximum likelihood analysis of CDMS II data and improved cryogenic solid-state detector modeling
17:40–18:00	Alfredo Tomas (Imperial College London) Study of electron emission from cathodic wires in a double-phase xenon detector
18:00–18:20	Christian Torrero (Centre de Physique Theorique Marseille) Lattice computation of the nucleon sigma terms at the physical point
18:20–18:40	Vera Gluscevic (Institute for Advanced Study, Princeton) Probing Theories of Dark Matter with Direct Detection: A Census Study
18:40–19:00	Kook Hyun Yoon (Sogang University) New approaches in the Analysis of Dark Matter direct detection data



Dark Matter B – Tuesday 8 September 2015	
DM Theory and Phenomenology	
14:30–14:50	Fabio Iocco (ICTP-SAIFR and IFT-UNESP) The dark matter distribution of the Milky Way
14:50–15:10	Miguel Pato (The Oskar Klein Centre, Stockholm University) Mapping dark matter in the Milky Way
15:10–15:30	Sebastian Wild (Technical University Munich) A novel approach to derive halo-independent limits on dark matter properties
15:30–15:50	Justin Read (University of Surrey) Towards predictive structure formation simulations with baryons
15:50–16:10	Stefan Vogl (Stockholm University) Halo-independent tests of dark matter direct detection signals: local DM density, LHC, and thermal freeze-out
16:10–16:30	Sara Schon (University of Melbourne) Dark Matter Annihilation in and around the First Galaxy Halos

Coffee Break

Dark Matter B – Tuesday 8 September 2015	
DM Indirect Searches	
17:00–17:20	Andrii Neronov (University of Geneva) Signatures of a two million year old supernova in the spectra of cosmic ray protons, antiprotons and positrons
17:20–17:40	Alessandro Cuoco (RWTH University of Aachen) Dark matter searches in the gamma-ray extragalactic background via cross-correlations with galaxy catalogues
17:40–18:00	Fabio Zandanel (GRAPPA - University of Amsterdam) Angular power spectrum of sterile neutrino decay lines: the role of eROSITA
18:00–18:20	Sergio Lopez-Gehler (TU Munchen) Novel gamma-ray spectral features from cascade processes involving
18:20–18:40	Osamu Seto (Hokkai-Gakuen University) Galactic Center excess by Higgs portal dark matter



Dark Matter A – Wednesday 9 September 2015

WIMP Direct Detection

14:30–14:45	Riccardo Cerulli (INFN-LNGS) Recent analyses on the DAMA/LIBRA-phase1 data
14:45–15:00	Jingke Xu (Princeton University) Scintillation efficiency measurement of Na recoils in NaI(Tl) below the DAMA/LIBRA energy threshold 15:00-15:15
15:15–15:30	Hyun Su Lee (Ewha Womans University) Status of KIMS-NaI experiment
15:30–15:45	Reina Maruyama (Yale University) Results from the DM-Ice17 Dark Matter Experiment at the South Pole
15:45–16:00	Maria Luisa Sarsa (University of Zaragoza) Status of the Anais Dark Matter project at the Canfranc Underground Laboratory
16:00–16:15	Francis Froborg (Princeton University) SABRE: WIMP Modulation Detection in the Northern and Southern Hemisphere
16:15–16:30	Ken-Ichi Fushimi (Tokushima University) PICO-LON dark matter project by means of NaI(Tl) scintillator

Coffee Break

Dark Matter A – Wednesday 9 September 2015

Underground Laboratories

17:00–17:20	Aldo Ianni (Canfranc Laboratory) Canfranc Laboratory
17:20–17:40	Ian Lawson (SNOLAB) Ultra-Low Background Measurement Capabilities at SNOLAB
17:40–18:00	Jianmin Li (Tsinghua university) The recent status and prospect of CJPL
18:00–18:20	Gerd Heusser (Max-Planck-Institut fuer Kernphysik) Complete simulation and experimental verification of muon and neutron induced backgrounds at the shallow depth GIOVE detector
18:20–18:40	Moo Hyun Lee (Center for Underground Physics, Institute for Basic Science) Background measurements by using alpha and gamma detectors at the Center for Underground Physics in Korea
18:40–19:00	Soumya Rao (University of Adelaide) Detecting Dipolar Dark Matter in Beam Dump Experiments
19:00–19:20	Hexi Shi (INFN LNF) Searches for the Violation of Pauli Exclusion Principle at LNGS



Dark Matter B – Wednesday 9 September 2015	
DM Indirect Searches	
14:30–14:50	Piotr Mijakowski (National Centre for Nuclear Research) Indirect searches for dark matter particles at Super-Kamiokande
14:50–15:10	Marco Chianese (University of Napoli Federico II - INFN) PeV decaying Dark Matter at IceCube
15:10–15:30	Jeroen Franse (Leiden University) Recent Developments on the 3.5 keV X-ray Line in Galaxies and Galaxy Clusters
15:30–15:50	Keith Bechtol (WIPAC / University of Wisconsin-Madison) The Search for Milky Way Satellite Galaxies from Optical to Gamma Rays
15:50–16:10	Cecilia Pizzolotto (INFN, ASDC) Precision measurements of light anti-matter components in cosmic rays with AMS-02
16:10–16:30	Weiwei Xu (MIT) Antiprotons and positrons in AMS

Coffee Break

Dark Matter B – Wednesday 9 September 2015	
DM Indirect Searches	
17:00–17:20	Timur Delahaye (Oskar Klein Centre) Antideuterons from Decaying Gravitino Dark Matter
17:20–17:40	Philip von Doetinchem (University of Hawaii at Manoa) Dark matter identification with cosmic-ray antideuterons
17:40–18:00	Martin Wolfgang Winkler (Bonn University) AMS-02 Antiprotons Reloaded
18:00–18:20	Mathieu Boudaud (LAPTh) AMS-02 antiprotons: implications for Dark Matter
18:20–18:40	Andrea Vittino (University of Torino and INFN Torino) A quantitative study of AMS-02 electron and positron data: what can we learn about Dark Matter?
18:40–19:00	Stefania Bufalino (University of Torino and INFN/Torino) Anti-nuclei production at the LHC measured with ALICE



Dark Matter A – Thursday 10 September 2015	
<i>WIMP Direct Detection Prospects</i>	
14:30–14:50	Dan McKinsey (University of California, LBNL) The LZ Dark Matter Experiment
14:50–15:10	Marc Schumann (AEC University of Bern) DARWIN: Dark matter (and more) with a multi ton-scale xenon detector
15:10–15:30	Benda Xu (Kavli IPMU, UTIAS, The University of Tokyo) XMASS 1.5: The Next Step in Kamioka, Japan
15:30–15:50	Robert Calkins (Southern Methodist University) The SuperCDMS Soudan High Threshold WIMP Search and the Planned SuperCDMS SNOLAB Experiment
15:50–16:10	Dongqing Huang (Brown University) Ultra-low Energy Calibration of LUX detector with D-D neutron and ^{127}Xe
16:10–16:30	Shawn Westerdale (Princeton University) The DarkSide-50 Outer Detectors

Coffee Break

Dark Matter A – Thursday 10 September 2015	
<i>Axion and WIMP Phenomenology</i>	
17:00–17:20	Michael Pivovarov (LLNL) IAXO - The International Axion Observatory
17:20–17:40	Vladimir Popov (Kazan Federal University) Spin-axion interactions
17:40–18:00	Ruoso Giuseppe (INFN - LNL) Proposal to detect axionic dark matter via their coherent interaction with intrinsic spin
18:00–18:20	Christopher McCabe (GRAPPA, University of Amsterdam) Prospects for dark matter discovery with inelastic transitions of Xenon
18:20–18:40	Stefano Magni (Laboratoire Univers et Particules de Montpellier) Phenomenological studies in dark matter direct detection: from the use of the escape speed estimates to tests on halo models
18:40–19:00	Juan Herrero Garcia (KTH) A halo-independent lower bound on the dark matter capture rate in the Sun from a direct detection signal



Dark Matter B – Thursday 10 September 2015	
DM Indirect Searches	
14:30–14:50	Jia Liu (PRISMA, Johannes Gutenberg University Mainz) Boosted Dark Matter in IceCube and at the Galactic Center
14:50–15:10	Marco Taoso (IPhT Saclay, CEA, Paris) Towards a realistic astrophysical interpretation of the Galactic center excess
15:10–15:30	Sergio Colafrancesco (University of Witwatersrand) Search for the nature of Dark Matter at radio wavelengths
15:30–15:50	Koji Ichikawa (Kavli-IPMU) Future spectroscopic survey and dark matter constraints from dwarf spheroidal galaxies
15:50–16:10	Alex Geringer-Sameth (Carnegie Mellon University) A search for dark matter annihilation in the newly discovered dwarf galaxy Reticulum 2
16:10–16:30	Nathan Kelley-Hoskins (DESY) A Likelihood Procedure for Dark Matter Searches of the Galactic Center with VERITAS

Coffee Break

Dark Matter B – Thursday 10 September 2015	
DM Indirect Searches	
17:00–17:20	Francesca Calore (University of Amsterdam, GRAPPA) The Fermi GeV excess: status and perspectives
17:20–17:40	Paola Giammaria (University of L'Aquila and INAF-OA Rome) Latest results on searches of Dark Matter signature in Galactic and extra-galactic selected targets by the MAGIC telescopes
17:40–18:00	J. Patrick Harding (Los Alamos National Laboratory) First Limits on Dark Matter Annihilation and Decay with the High Altitude Water Cherenkov (HAWC) Observatory
18:00–18:20	Jennifer Gaskins (UVA) Prospects for Indirect Dark Matter Searches with the CTA
18:20–18:40	Camilo Alfredo Garcia Cely (Universite Libre Bruxelles) Probing Minimal Dark Matter Scenarios with Cerenkov Telescopes



Parallel Session Neutrinos



Neutrinos A – Monday 7 September 2015	
Three Neutrino Mixing, Solar and Reactor Neutrinos	
14:30–14:50	Antonio Marrone (Bari University) Three-neutrino mixing: status and prospects
14:50–15:10	Hiroyuki Sekiya (Tokyo University) Low energy neutrinos in Super-Kamiokande
15:10–15:30	Gemma Testera (INFN, Genova) Recent solar neutrino results from the Borexino experiment
15:30–15:50	Zhe Wang (Tsinghua University) Latest Progress from the Daya Bay Reactor Neutrino Experiment
15:50–16:10	Hyunkwan Seo (Seoul National University) New Results from RENO
16:10–16:30	Thierry Lasserre (CEA, APC, TUM-IAS) Double Chooz

Coffee Break

Neutrinos A – Monday 7 September 2015	
Three Neutrino Mixing, Solar, Reactor and Geo Neutrinos	
17:00–17:20	Stephen Parke (Fermilab) What is Delta m_{2ee}^2 ?
17:20–17:40	Samoil Bilenky (JINR, Dubna) Neutrino in the Standard Model and Beyond
17:40–18:00	Aldo Ianni (Canfranc Laboratory) High significance measurement of the terrestrial antineutrino flux with the Borexino detector
18:00–18:20	Marica Baldoncini (Ferrara University) Reactor antineutrinos background in present and future geoneutrinos detectors
18:20–18:40	Ara Ioannisian (Yerevan Physics Institute) Scanning the Earth's core with solar neutrinos at future very large neutrino detectors
18:40–19:00	Ana Solaguren-Beascoa (TUM, Munich) Standard Model Fermion Masses and Mixing Angles generated in a 3HDM



Neutrinos B – Monday 7 September 2015	
Neutrinoless double-beta decay	
14:30–14:50	Konstantin Gusev (JINR, Dubna) Status of the GERDA experiment: on the way to Phase II
14:50–15:10	Igor Ostrovskiy (Stanford University) EXO-200: results and plans for Run2
15:10–15:30	Summer Blot (Manchester University) Recent results from the NEMO-3 experiment and the status of SuperNEMO
15:30–15:50	Carlo Bucci (INFN, LNGS) The CUORE and CUORE-0 experiments
15:50–16:10	Sabin Stoica (Horia Hulubei Foundation) Theoretical Challenges in Double Beta Decay
16:10–16:30	Pawel Guzowski (Manchester University) A combined limit on the neutrino mass from neutrinoless double-beta decay searches in multiple isotopes

Coffee Break

Neutrinos B – Monday 7 September 2015	
Neutrinoless double-beta decay	
17:00–17:20	Stefano Dell'Oro (INFN, LNGS) The contribution of light Majorana neutrinos to neutrinoless double beta decay and cosmology
17:20–17:40	Nikolay Rukhadze (JINR, Dubna) Search for double beta decay of ^{106}Cd in the TGV-2 experiment
17:40–18:00	Katsuki Hiraide (Tokyo University) Search for double electron capture on ^{124}Xe with the XMASS-I detector
18:00–18:20	Vladimir Tretyak (INR, Kiev) New limits on double beta processes in ^{106}Cd
18:20–18:40	Fedor Danevich (INR, Kiev) Search for double beta decay of ^{116}Cd with enriched $^{116}\text{CdWO}_4$ crystal scintillators
18:40–19:00	Takashi Iida (Osaka University) Status and future prospect of ^{48}Ca double beta decay search in CANDLES



Neutrinos A – Tuesday 8 September 2015 Mass Hierarchy and Long-Baseline Experiments	
14:30–14:50	Natalia Di Marco (INFN, LNGS) Results from the OPERA experiment at the CNGS beam
14:50–15:10	Michael Wurm (Mainz University) JUNO: a multi-purpose neutrino observatory
15:10–15:30	Seon-Hee Seo (Seoul National University) RENO-50
15:30–15:50	Stefan Soldner-Rembold (Manchester University) Status of the Precision IceCube Next Generation Upgrade (PINGU)
15:50–16:10	Antoine Kouchner (University Paris Diderot - APC) KM3NeT - ORCA: Measuring the neutrino mass hierarchy in the Mediterranean
16:10–16:30	Anna Holin (University College London) Results from the MINOS+ Experiment

Coffee Break

Neutrinos A – Tuesday 8 September 2015 Mass Hierarchy and Long-Baseline Experiments	
17:00–17:20	Brian Rebel (Fermilab) The NOvA Experiment
17:20–17:40	Mary Bishai (Brookhaven National Laboratory) An Experimental Program in Neutrinos, Nucleon Decay and Astroparticle Physics Enabled by the Fermilab Long-Baseline Neutrino Facility
17:40–18:00	GianFranca De Rosa (Napoli University) Status and Neutrino Oscillation Physics Potential of the Hyper-Kamiokande Project in Japan
18:00–18:20	Mayly Sanchez (Iowa State University) Using Fast Photosensors in the Next Generation Neutrino Detectors
18:20–18:40	Alessandra Tonazzo (APC, Paris) LBNO-DEMO (WA105): a large demonstrator of the Liquid Argon double phase TPC
18:40–19:00	Zhimin Wang (IHEP, Beijing) Central Detector of JUNO and its prototyping



Neutrinos B – Tuesday 8 September 2015	
Neutrinoless double-beta decay	
14:30–14:50	Matthew Green (Oak Ridge National Laboratory) Current Status of The Majorana Demonstrator
14:50–15:10	Jose Maneira (LIP, Lisboa) Status and prospects of the SNO+ experiment
15:10–15:30	Marco Vignati (INFN, Roma) Neutrinoless double-beta decay identification in TeO ₂ bolometers with kinetic inductance detectors
15:30–15:50	Young-Hamb Kim (Institute for Basic Science, Korea) The AMoRE project: Neutrinoless double beta decay search using low temperature ⁴⁰ Ca ¹⁰⁰ MoO ₄ calorimeters
15:50–16:10	Yoshiyuki Fukuda (Miyagi University) ZICOS - New project for neutrinoless double beta decay experiment using zirconium complex in organic liquid scintillator
16:10–16:30	Luca Pattavina (INFN, LNGS) Scintillating bolometers for the LUCIFER project

Coffee Break

Neutrinos B – Tuesday 8 September 2015	
Neutrinoless double-beta decay	
17:00–17:20	Andrew Laing (IFIC, Valencia) The NEXT double beta decay experiment
17:20–17:40	Keith Rielage (Los Alamos National Laboratory) R and D Towards a Next Generation Germanium Double Beta Decay Experiment
17:40–18:00	Ryan MacLellan (University of South Dakota) nEXO: the next generation Xe-136 neutrinoless double beta decay search
18:00–18:20	Elena Sala (Institute for Basic Science, Korea) Development of an underground low background instrument for high sensitivity measurements
18:20–18:40	Alexander Barabash (ITEP, Moscow) On concentration of ⁴² Ar in liquid argon



Neutrinos A – Wednesday 9 September 2015	
<i>Atmospheric Neutrinos and New Physics</i>	
14:30–14:50	Yoshinari Hayato (Tokyo University) Recent results from SK and future prospects
14:50–15:10	Joao Pedro Athayde Marcondes de Andre (Michigan State University) Latest results on atmospheric neutrino oscillations from IceCube/DeepCore
15:10–15:30	Alexander Studenikin (Moscow State University) Status and perspectives of neutrino magnetic moments
15:30–15:50	Shunichi Mine (University of California, Irvine) Recent nucleon decay results from Super-Kamiokande
15:50–16:10	Elena Gramellini (Yale University) Studies of Cosmogenic Backgrounds to Nucleon Decays in MicroBooNE
16:10–16:30	Marcello Messina (Columbia University) PTOLEMY

Coffee Break

Neutrinos A – Wednesday 9 September 2015	
<i>Neutrino Mass</i>	
17:00–17:20	Philipp Chung-On Ranitzsch (Muenster University) Status and commissioning of the KATRIN spectrometer and detector section
17:20–17:40	Loredana Gastaldo (Heidelberg University) The Electron Capture in Ho-163 experiment
17:40–18:00	Stephan Scholl (Eberhard-Karl-University) Background Analysis and Reduction for the ECHO Experiment
18:00–18:20	Noah Oblath (Massachusetts Institute of Technology) Project 8: Using Radiofrequency Techniques to Measure the Neutrino Mass
18:20–18:40	Takahiko Masuda (Okayama University) Recent progress of SPAN towards neutrino mass spectroscopy
18:40–19:00	Arsenii Titov (SISSA) The Leptonic Dirac CP Violation Phase from Sum Rules
19:00–19:20	Vitaly Kudryavtsev (Sheffield University) Underground Physics with DUNE



Neutrinos B – Wednesday 9 September 2015 Underground Laboratories and Supernova Neutrinos	
14:30–14:50	Chris Jillings (SNOLAB) The SNOLAB Science Program
14:50–15:10	Cristina Volpe (APC, Paris) Recent developments in supernova neutrino physics
15:10–15:30	Evgeny Akhmedov (MPIK, Heidelberg) Another look at collective neutrino oscillations
15:30–15:50	Hendrik Vogel (MPI, Munich) Neutrino propagation in media: Flavor-, helicity-, and pair correlations
15:50–16:10	Takashi Yoshida (Kyoto University) Neutrino emission from nearby supernova progenitors
16:10–16:30	Shu Luo (Xiamen University) Diffuse GRB Neutrino Background and its Detection

Coffee Break

Neutrinos B – Wednesday 9 September 2015 Neutrino Interactions	
17:00–17:20	Osamu Yasuda (Tokyo Metropolitan University) Constraints on the flavor-dependent non-standard interaction in propagation from atmospheric neutrinos
17:20–17:40	Phil Barbeau (Duke University) COHERENT neutrino-nucleus scattering at the SNS
17:40–18:00	Hau-Bin Li (Academia Sinica, Taipei) Neutrino and dark matter physics with sub-keV germanium detectors
18:00–18:20	Tatasuya Hayashio (Kyoto University) The WAGASCI experiment at J-PARC to measure the neutrino cross-section ratio between water and plastic
18:20–18:40	Konstantin Kouzakov (Moscow State University) Neutrino-atom collisions
18:40–19:00	Cheng-Pang Liu (National Dong Hwa University) Atomic ionization by neutrinos at low energies



Neutrinos A – Thursday 10 September 2015	
Sterile Neutrinos	
14:30–14:50	Antonia Di Crescenzo (INFN, Napoli) Search for sterile neutrino mixing in the ν_{μ} to ν_{τ} appearance channel with the OPERA detector
14:50–15:10	Jordi Salvado (University of Wisconsin Madison) Sterile Neutrino Search in IceCube Neutrino Observatory
15:10–15:30	Matt Toups (MIT) The Status of the MicroBooNE Experiment
15:30–15:50	Matthieu Vivier (CEA, Saclay) SOX: Short Distance Neutrino Oscillations with Borexino
15:50–16:10	Filippo Varanini (INFN, Padova) ICARUS status and next future
16:10–16:30	Jian Tang (Sun Yat-Sen University) Testing the direct and indirect unitarity violation at a Neutrino Factory

Coffee Break

Neutrinos A – Thursday 10 September 2015	
Sterile Neutrinos	
17:00–17:20	Karsten Heeger (Yale University) Precision Studies of Reactor Antineutrinos with PROSPECT
17:20–17:40	Yufeng Li (IHEP, Beijing) Direct detection of the relic neutrinos
17:40–18:00	Valentina De Romeri (CNRS/LPC Clermont) Impact of sterile neutrinos in lepton flavour violating processes
18:00–18:20	Frederic Yermia (SUBATECH, Nantes) SoLid: Search for Oscillations with a Lithium-6 Detector at the SCK-CEN BR2 reactor
18:20–18:40	Wladyslaw H. Trzaska (Jyvaskyla University) Omnibus experiment: CPT and CP violation with sterile neutrinos
18:40–19:00	Marilisa De Serio (Bari University) SHiP: A new facility for searching for heavy neutrinos and studying the tau neutrino properties



Neutrinos B – Thursday 10 September 2015	
High-Energy Astrophysical Neutrinos	
14:30–14:50	Aya Ishihara (Chiba University) Probing cosmic-ray origin with cosmogenic neutrino search in 6 year of IceCube data
14:50–15:10	Lars Mohrmann (DESY) Characterization of the Astrophysical Neutrino Flux at the IceCube Neutrino Observatory
15:10–15:30	Giulia Pagliaroli (INFN, LNGS) What is the Flavor of the Cosmic Neutrinos Seen by IceCube?
15:30–15:50	Annarita Margiotta (Bologna University) Recent results with ANTARES, the first undersea neutrino telescope in the Mediterranean Sea
15:50–16:10	Pasquale Migliozzi (INFN, Napoli) High energy neutrino detection with KM3NeT
16:10–16:30	Konstantia Balasi (NCSR, Demokritos) Measurement of light scattering in deep sea

Coffee Break

Neutrinos B – Thursday 10 September 2015	
Astrophysical and Atmospheric Neutrinos	
17:00–17:20	Arnon Dar (Technion, Israel) Common Solution of three cosmic puzzles
17:20–17:40	Maria Vittoria Garzelli (Hamburg University) Prompt neutrino fluxes from atmospheric charm revisited
17:40–18:00	Thomas Kintscher (DESY) Recent Developments of the Real-time Capabilities of IceCube
18:00–18:20	Melanie Day (Wisconsin University) Non-Standard Neutrino Interactions in IceCube
18:20–18:40	Takatomi Yano (Kobe University) Neutrino astrophysics with Hyper-Kamiokande
18:40–19:00	Felix Gonzalez-Canales (Valencia University) The leptonic sector in a flavour model with $S(3)$ symmetry



Parallel Session
High-Energy Astrophysics and Cosmic
Rays



High-Energy Astrophysics and Cosmic Rays – Monday 7 September 2015	
17:00–17:20	Sabrina Casanova (Max-Planck-Institut fuer Kernphysik, Heidelberg, Germany) Galactic VHE gamma-ray astrophysics with H.E.S.S.
17:20–17:40	David Paneque (MPI Munich) The MAGIC Telescope System: Status and Scientific Higlhts
17:40–18:00	Lucy Fortson (Univ. of Minnesota) Highlights of recent results from the VERITAS gamma-ray observatory
18:00–18:20	Miguel Mostafa (Penn State Univ.) The High Altitude Water Cherenkov Observatory
18:20–18:40	Silvia Vernetto (OATO-INAF) Gamma ray astronomy with LHAASO
18:40–19:00	Eugenio Bottacini (Stanford University) Deeply X-Raying the High-Energy Sky



High-Energy Astrophysics and Cosmic Rays – Tuesday 8 September 2015

14:30–14:50	Roberto Aloisio (INFN - GSSI) Ultra High Energy Cosmic Rays Propagation and Cosmogenic Neutrinos
14:50–15:10	Gajanan Dnyaneshwar Harale (Pune University) Forming galaxy clusters are the major source of cosmic neutrinos and ultra high energy particles
15:10–15:30	Daniele Montanino (Universita' del Salento) Axion-Like particles from extragalactic High Energy sources
15:30–15:50	Xavier Bertou (CNEA/CONICET) The Upgrade of the Pierre Auger Observatory
15:50–16:10	Katherin Shtejer Diaz (Universita' degli Studi di Torino) Study of muon bundles from extensive air showers with ALICE detector
16:10–16:30	Javier Gonzalez (University of Delaware) Measuring Low Energy Muons with IceTop

Coffee Break

High-Energy Astrophysics and Cosmic Rays – Tuesday 8 September 2015

17:00–17:20	Raffaella Bonino (Universita' di Torino) Cosmic Ray Electron Spectrum with the Fermi LAT
17:20–17:40	Marco Casolino (INFN Roma2) Results and perspectives of research of cosmic rays from space with PAMELA detector
17:40–18:00	Emanuele Fiandrini (Universita' and INFN Perugia) Precision measurements of CR energy spectra and composition with the AMS-02 experiment
18:00–18:20	Yoann Genolini (LAPTh Annecy) Theoretical uncertainties in extracting cosmic-ray diffusion parameters: the boron-to-carbon ratio
18:20–18:40	Pier Simone Marrocchesi (Universita' di Siena and INFN Pisa) CALET on the ISS: a high energy astroparticle physics experiment
18:40–19:00	Dario Grasso (INFN Pisa) Gamma-ray and neutrino diffuse emissions of the Galaxy above the TeV



High-Energy Astrophysics and Cosmic Rays – Wednesday 9 September 2015	
14:30–14:50	Asen Christov (Universite de Geneve) Correlation between the UHECRs measured by the Pierre Auger Observatory and Telescope Array and neutrino candidate events from IceCube
14:50–15:10	Daniele Fargion (Universita' and INFN Roma1) UHECR Hot Spot connection to sources
15:10–15:30	Mariangela Settimo (LPNHE IN2P3-CNRS) Measurement of the mass composition of ultra-high energy cosmic rays with the Pierre Auger Observatory
15:30–15:50	Yosiki Tsunesada (Tokio Institute of Technology) Recent results from the Telescope Array
15:50–16:10	Pasi Kuusiniemi (University of Oulu) Muon multiplicities measured using an underground cosmic-ray array
16:10–16:30	Olga Ryazhskaya (Institute for Nuclear Research of RAS) Study of the penetrating component of cosmic rays underground using large liquid scintillation detectors

Coffee Break

High-Energy Astrophysics and Cosmic Rays – Wednesday 9 September 2015	
17:00–17:20	Rachele Desiante (INFN Torino) Searching for high-energy and very-high-energy emission from novae with Fermi-LAT and MAGIC
17:20–17:40	Elena Orlando (Stanford University) Cosmic-ray leptons from multi-wavelength observations of the Galactic diffuse emission
17:40–18:00	Rolf Kappl (BCTP Bonn) Charge-sign dependent solar modulation for everyone
18:00–18:20	Irene Tamborra (GRAPPA Institute Amsterdam) High energy neutrinos from gamma-ray burst fireballs



High-Energy Astrophysics and Cosmic Rays A – Thursday 10 September 2015	
14:30–14:50	Anatoly Petrukhin (MEPhi University Moskow) New approach to cosmic ray investigations above the knee
14:50–15:10	Thomas Gaisser (Bartol Research Institute) Atmospheric neutrinos and the knee of the primary cosmic-ray spectrum
15:10–15:30	Giuseppe Di Sciascio (INFN Roma2) The Scientific Legacy of ARGO-YBJ
15:30–15:50	Katherine Rawlins (University of Alaska) Cosmic Ray Spectrum and Composition from Three Years of IceTop and IceCube
15:50–16:10	Vasily Prosin (Institute of Nuclear Physics MSU) The Results and Perspectives of Cosmic Rays Mass Composition Study with EAS arrays in the Tunka Valley
16:10–16:30	Mario Bertina (University of Torino) The cosmic ray spectrum and composition measured by KASCADE-Grande between 10 to 16 eV and 10 to 18 eV

Coffee Break

High-Energy Astrophysics and Cosmic Rays A – Thursday 10 September 2015	
17:00–17:20	Elina Lindfors (Tuorla Observatory, University of Turku) Cherenkov Telescope Array - A Sensitive Probe of the Extreme Universe
17:20–17:40	Giovanni Pareschi (Osservatorio Astronomico Brera INAF) The mini-array of ASTRI SST-2M telescopes, precursors for the Cherenkov Telescope Array
17:40–18:00	Marina Manganaro (IAC Instituto de Astrofísica de Canarias) Latest MAGIC discoveries pushing redshift boundaries in VHE AstroPhysics
18:00–18:20	Lucia Ambrogi (INFN-GSSI) On the potential of atmospheric cherenkov telescope arrays for resolving TeV gamma-ray sources in the Galactic Plane
18:20–18:40	B. S. Acharya (Tata Institute of Fundamental Research) Status of HiGRO project at Hanle In the Himalayas
18:40–19:00	Bindu Rani (Max-Planck-Institut fuer Radioastronomie, Bonn) Where and how gamma-rays are produced in AGN jets



High-Energy Astrophysics and Cosmic Rays B – Thursday 10 September 2015	
14:30–14:50	Giacomo Bonnoli (INAF Brera) Science with the ASTRI mini-array for the Cherenkov Telescope Array: blazars and fundamental physics
14:50–15:10	Daniel Galindo Fernandez (Universitat de Barcelona) Teraelectronvolts pulsed emission from the Crab pulsar detected by MAGIC
15:10–15:30	Carlo Romoli (Dublin Institute for Advanced Studies) AGN observations with a 100 GeV threshold using H.E.S.S. II
15:30–15:50	Nikolay Budnev (Irkutsk State University) The TAIGA experiment: from cosmic ray to gamma-ray astronomy in Tunka valley.
15:50–16:10	Vera Georgievna Sinitsyna (Lebedev Physical Institute) Very high energy gamma-ray emission of Perseus Cluster and NGC 1275
16:10–16:30	Nissim Fraija (Institute de Astronomia UNAM) A theoretical model to explain TeV gamma-ray and X-ray correlation in Blazars

Coffee Break

High-Energy Astrophysics and Cosmic Rays B – Thursday 10 September 2015	
17:00–17:20	Alexander Borisov (Lebedev Physics Institute Moscow) Exotic events in astroparticle interactions at superhigh energies
17:20–17:40	Martin Urban (RWTH Aachen University) Investigation of the Galactic Magnetic Field using Ultra-High Energy Cosmic Rays
17:40–18:00	Tomoki Endo (National Institute of Technology Kagawa College) Hadronic matter phases and the application to rapidly rotating neutron stars
18:00–18:20	Marco Ricci (INFN LNF) The JEM-EUSO Program
18:20–18:40	Laura Rossetto (Radboud University Nijmegen) Measurement of cosmic rays with LOFAR
18:40–19:00	Ewa Marlen Holt (Karlsruher Institute of Technology) The Auger Engineering Radio Array and multihybrid cosmic ray detection at the Pierre Auger Observatory



Parallel Session Cosmology



Cosmology – Monday 7 September 2015	
Dark matter and structure formation	
14:30–14:53	Raul Angulo (CEFCA Teruel) DM simulations and large scale structure
14:53–15:16	Emanuele Castorina (SISSA Trieste) Massive neutrinos and the large scale structure of the Universe
15:16–15:39	Keith Bechtol (WIPAC-Univ. Wisconsin) The search for Milky Way satellite galaxies from optical to gamma rays
15:39–15:57	Jun-Qing Xia (IHEP Beijing) Searching for Fermi gamma-ray diffuse extragalactic signal via cross-correlations with LSS catalogs
15:57–16:15	Stefano Camera (Manchester Univ.) Detecting particle dark matter signatures by cross-correlating gamma-ray anisotropies with weak lensing
16:15–16:35	Spagna A. / Crosta M.T. (INAF Torino) The Gaia mission: The dawn of Astrometric Cosmology? Status and prospects after 14 months of science operations

Coffee Break

Cosmology – Monday 7 September 2015	
Cosmic Microwave Background	
17:00–17:23	Silvia Galli (KICP-Univ. Chicago) Fundamental physics with Planck
17:23–17:46	Massimiliano Lattanzi (INFN-Univ. Ferrara) Planck constraints on neutrino physics
17:46–18:04	Darcy Barron (UC Berkeley) Cosmology from CMB Polarization with POLARBEAR and the Simons Array
18:04–18:22	Giulio Fabbian (SISSA Trieste) Latest results of the POLARBEAR experiment
18:22–18:40	Daniel Boriero (Bielefeld Univ.) The effect of non-relativistic neutrino oscillations in cosmology
18:40–18:58	Stefano Gariazzo (INFN-Univ. Torino) Dark Radiation and Inflationary Freedom



Cosmology – Tuesday 8 September 2015	
<i>Beyond the standard paradigm</i>	
17:00–17:23	Jose Cembranos (Univ. Complutense Madrid) Modified gravity and dark matter
17:23–17:41	Maksym Eingorn (North Carolina Central U.) Cosmological models with QGP: DM, DE and scalar perturbations
17:41–17:59	Maria Archidiacono (Aarhus Univ.) Secret neutrino interactions
17:59–18:17	Isabel Mira Oldengott (Bielefeld Univ.) Boltzmann Hierarchy for Interacting Neutrinos
18:17–18:35	Garry Angus (Vrije Univ. Brussels) Using the dynamics of face-on galaxies to test modified gravity
18:35–18:53	Surajit Chattopadhyay (Pailan Coll. Mgt. Tech. Kolkata) A holographic reconstruction scheme for scalar-field dark-energy models in Brans-Dicke cosmology



Parallel Session Gravitational Waves



Gravitational Waves – Tuesday 8 September 2015 Multimessenger physics with GWs, neutrinos and photons	
14:30–14:50	Christian Ott (California Institute of Technology) Observing Gravitational Waves from Core-Collapse Supernovae
14:50–15:05	Claudio Casentini (University of Rome Tor Vergata and INFN) Joint search for Gravitational Wave and Low Energy Neutrino signals from Core Collapse Supernovae
15:05–15:25	Silvia Piranomonte (INAF-Osservatorio Astronomico di Roma, Monte Porzio Catone (RM), Italy) Electromagnetic follow-up of gravitational wave transient candidates
15:25–15:45	Massimiliano Razzano (University of Pisa and INFN - Pisa) Studies on the high-energy follow-up of gravitational wave transient events
15:45–16:05	Paolo D'Avanzo (INAF Brera) The first time-domain experiment with Swift: monitoring of seven nearby galaxies
16:05–16:25	Dafne Guetta (OAR-INAF ORT Braude) High Energy neutrinos from Gamma Ray Bursts in the IceCube and ARA era

Coffee Break



Gravitational Waves – Wednesday 9 September 2015

GWs: detectors

14:30–14:50	Shinji Miyoki (Institute for Cosmic Ray Research, The University of Tokyo) Present status of KAGRA cryogenic gravitational wave telescope
14:50–15:10	Michele Punturo (INFN) Future underground gravitational wave observatories
15:10–15:30	Stefan Hild (University of Glasgow) Beyond Advanced LIGO
15:30–15:50	Jan Harms (University of Urbino, INFN Florence) Modelling gravity fluctuations underground above 10mHz
15:50–16:10	Alessio Rocchi (INFN) Adaptive optical systems for next generation interferometric detectors
16:10–16:30	Laura van der Schaaf (NIKHEF) Virgo Phase Cameras

Coffee Break

Gravitational Waves – Wednesday 9 September 2015

GWs and Gravity

17:00–17:20	Alessandro Nagar (IHES) Gravitational waves from coalescing compact objects: interfacing analytical and numerical techniques
17:20–17:40	Sebastiano Bernuzzi (Caltech/Parma University) Modeling Gravitational Waves from Neutron Stars Mergers
17:40–18:00	Fabrizio Pinto (Laboratory for Quantum Vacuum Applications, Jazan University) Gravitational-wave detection by dispersion force modulation in nanoscale parametric amplifiers
18:00–18:20	Francesco Ronga (INFN LNF) Newtonites in resonant bar detectors of gravitational wave
18:20–18:40	Giorgio Gratta (Stanford University) Probing gravity at extreme scales
18:40–19:00	Angelo Tartaglia (Politecnico di Torino) Light as a probe of the structure of space-time



Parallel Session Outreach and Education



Outreach and Education – Monday 7 September 2015	
Outreach and Education (Conveners: M. Cirilli, A. Ferrari)	
14:30–14:50	Joao Pequena (CERN) Giving shape to a Phantom - The making of a planetarium show on Dark Matter
14:50–15:10	Massimiliano Razzano (University of Pisa) Dr. Scientist and Mr. Journalist
15:10–15:30	Laura Perasso (INFN Genova) EEE - Extreme Energy Events: an astroparticle experiment in italian high schools
15:30–15:50	Andrea De Bortoli (Agora' Scienza) Public Engagement and Outreach: the case of Agora' Scienza
15:50–16:10	Maria Rosaria D'Antonio (Italian Space Agency) ASI outreach activities

Coffee Break



POSTER SESSION

Best posters awards will be issued by the LOC, and the prizes (courtesy of Hamamatsu) will be delivered to the awardees at the end of the conference. The Poster Prizes Committee is formed by: E. Coccia (University of Roma Tor Vergata and GSSI - Chair), P. Gondolo (University of Utah), S. Pastor (IFIC/CSIC/Univesrity of Valencia), Seon-Hee Seo (Seoul National University), Y. Tsunesada (Tokyo Institute of Technology).



DARK MATTER Posters
<p>Pushparaj Adhikari (Sejong University, Seoul, South Korea) Background study of NaI(Tl) crystals for KIMS-NaI experiment</p>
<p>Al Alavi (Hakim Sabzevari University, Iran) Photonic dark matter portal revisited</p>
<p>Cassandra Avram (University of Melbourne, Australia) Dark matter annihilations at early cosmic times: impact and observational features</p>
<p>Leila Ali Cavazonza (TTK RWTH University Aachen, Germany) Constraining leptophilic dark matter models with recent AMS measurements</p>
<p>Alastair Currie (Imperial College London, UK) Updated WIMP search results from the 2013 LUX dataset</p>
<p>Alexander Fieguth (Institut fuer Kernphysik, Muenster, Germany) Removal of radioactive noble gases out of Xe with a cryogenic distillation column for the XENON1T experiment</p>
<p>Antonia Hubbard (Yale University, USA) Analysis of 4 years of data from the DM-Ice17 dark matter experiment</p>
<p>Xiaoyuan Huang (Xiaoyuan Huang) (Towards) Galactic dark matter search using non-parametric astrophysics modeling</p>
<p>Masatoshi Kobayashi (Institute for Cosmic Ray Research, Japan) Using ^{220}Rn to calibrate liquid noble gas detectors</p>
<p>Parampreet Singh Walia (University of Oslo, Norway) Simplified implementation of QCD corrections for indirect dark matter searches and relic density calculations</p>
<p>Fabio Pereira Dos Santos (PUC-Rio de Janeiro, Brasil) Scalar dark matter in an extra dimension inspired model</p>
<p>Gabriele Piperno (INFN Roma1, Italy) Low energy analysis in CUORE-0</p>
<p>Jorge Puimedon (University of Zaragoza, Spain) Cosmogenic and primordial radioisotopes in Cu bricks shortly exposed to cosmic rays</p>
<p>Jungho So (Institute for Basic Science, Daejeon, South Korea) Introduction of Korean underground physics facility</p>



Yuri Stenkin (Institute for Nuclear research, RAS, Moscow, Russia)
Barometric pumping effect for radon-due neutron flux in underground laboratories

Franz Pröbst (Max-Planck-Institut für Physik, Munich, Germany)
The CRESST-III Low-Mass WIMP Detector

Yong Tang (Korea Institute for Advanced Study, Seoul, South Korea)
Self-Interacting Dark Matter and Sterile Neutrinos

Diego Torres Machado (Universidade Federal do Rio de Janeiro, Brasil)
Measurement of radioactive contamination in the high-resistivity silicon CCDs of the DAMIC experiment

Chao Zhang (DESY, Hamburg, Germany)
Complementary constraints on SUSY DM: updates on the AstroFIT program



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<p>Riccardo Fabbricatore (Moscow State University, Russia) A new rigorous approach to neutrino oscillations in magnetic fields</p>
<p>Andrea Giachero (INFN and University of Milano Bicocca, Italy) Development of microwave-multiplexed superconductive detectors for the HOLMES experiment</p>
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<p>Julia Haser (MPK, Heidelberg, Germany) Search for eV sterile ν at a nuclear reactor: the STEREO project</p>
<p>Bjoern Lehnert (TU Dresden, Germany) HPGe Characterization for the Rejection of Surface Events in Gerda Phase II</p>
<p>Alexey Lokhov (Institute for Nuclear Research RAS, Moscow, Russia) Statistical criteria for search of heavy neutrino in tritium spectrum</p>
<p>Prajwal Mohanmurthy (MIT, Boston, USA) Coherent Neutrino Scattering on NaI</p>
<p>Sheng Sei Pan Ban (Kyoto University, Japan) AXEL: High pressure Xe gas TPC for neutrinoless 2β decay search</p>
<p>Gabriele Piperno (INFN Roma1, Italy) Low energy analysis in CUORE-0</p>
<p>Daniel Saunders (University of Bristol, UK) Muons at SoLid: Detector Commissioning</p>
<p>Vivek Singh (University of California, Berkeley, USA) The CUORE cryostat: commissioning and performance</p>



Alexander Studenikin (Moscow State University and JINR - Dubna, Russia)
Spin light of relativistic electrons and dense neutrino fluxes

Chenyuan Xu (Okayama University, Japan)
Current status of GADZOOKS! and EGADS

Eduardo Marcio Zavanin (University of Torino, Italy)
Predictions for Neutrinoless Double-Beta Decay in the 3+1 Sterile Neutrino Scenario



HIGH ENERGY ASTROPHYSICS Posters

Ciro Bigongiari (INAF-OATO, Torino, Italy)

Simulation of the ASTRI SST-2M prototype for the Cherenkov Telescope Array

Sergey Borisov (P.N. Lebedev Physical Institute, RAS, Moscow, Russia)

The very high energy characteristics of shell-type SNRs and Pulsar Wind Nebulae at different ages

Federico Di Piero (INAF-OATO, Torino, Italy)

Expected performance of the ASTRI mini-array in the framework of the Cherenkov Telescope Array

Francesco Fenu (University of Torino, Italy)

Preliminary analysis of EUSO-TA data

Paola Giammaria (University of L'Aquila e INAF OA Roma, Italy)

Searching for dark matter signature in dwarf spheroidal galaxies with the ASTRI mini-array in the framework of Cherenkov Telescope Array

Hector Gomez (APC, Paris, France)

Studies on muon tomography for internal structure scanning

Hiroko Miyamoto (University of Torino, Italy)

Results of the first EUSO-Balloon flight

Mihai Niculescu-Oglinzanu (National Institute for Physics and Nuclear Engineering, Magurele-Bucharest, Romania)

The SiRO Detector (Silicone Read Out) for cosmic muon flux-trajectory measurements

Andreas Pichler (Stefan Meyer Institute for Subatomic Physics, Vienna, Austria)

Application of photon detectors in the experiment to test Pauli Exclusion Principle

Oscar Saavedra (University of Torino, Italy)

On a possible network of large area air shower array at high altitude laboratories in Latin America

Oleg Shchegolev (Institute for Nuclear Research, RAS, Moscow, Russia)

Electron and thermal neutron lateral distribution functions in EAS at high altitude

Vera Yurievna Sinitsyna (P. N. Lebedev Physical Institute, RAS, Moscow, Russia)

Long-term studies of the Cygnus Region and its objects: Cyg X-3 and gamma Cygni SNR

Igor Volokh (P.N. Lebedev Physical Institute (RAS), Moscow, Russia)

Observations of AGNi with $z = 0.018 - 2.979$ at high and very high energies



COSMOLOGY Posters

Afsaneh Bazrafshan (Jahrom University, Iran)
 Quartic Quasitopological Gravity

Mohammad Ghanaatian (Payame Noor University, Iran)
 Bouncing Universe and Weyl Tensor

Nadezda Gubina (Moscow State University, Moscow, Russia)
 Fermion vacuum polarization in magnetic field under Lorentz invariance violation conditions of electron anomalous magnetic moment

Rameshwar Singh (A.P.S. University, Rewa (M.P), India)
 Higher Dimensional Cosmological Models with Bulk Viscous Fluid

Rishi Kumar Tiwari (Govt. Model Science. P.G. College, Rewa, India)
 Dark Energy Model of the Universe Inspired by Conharmonically Flat Geometry

GRAVITATIONAL WAVES Poster

Antonello Ortolan (INFN-LNL, Frascati, Italy)
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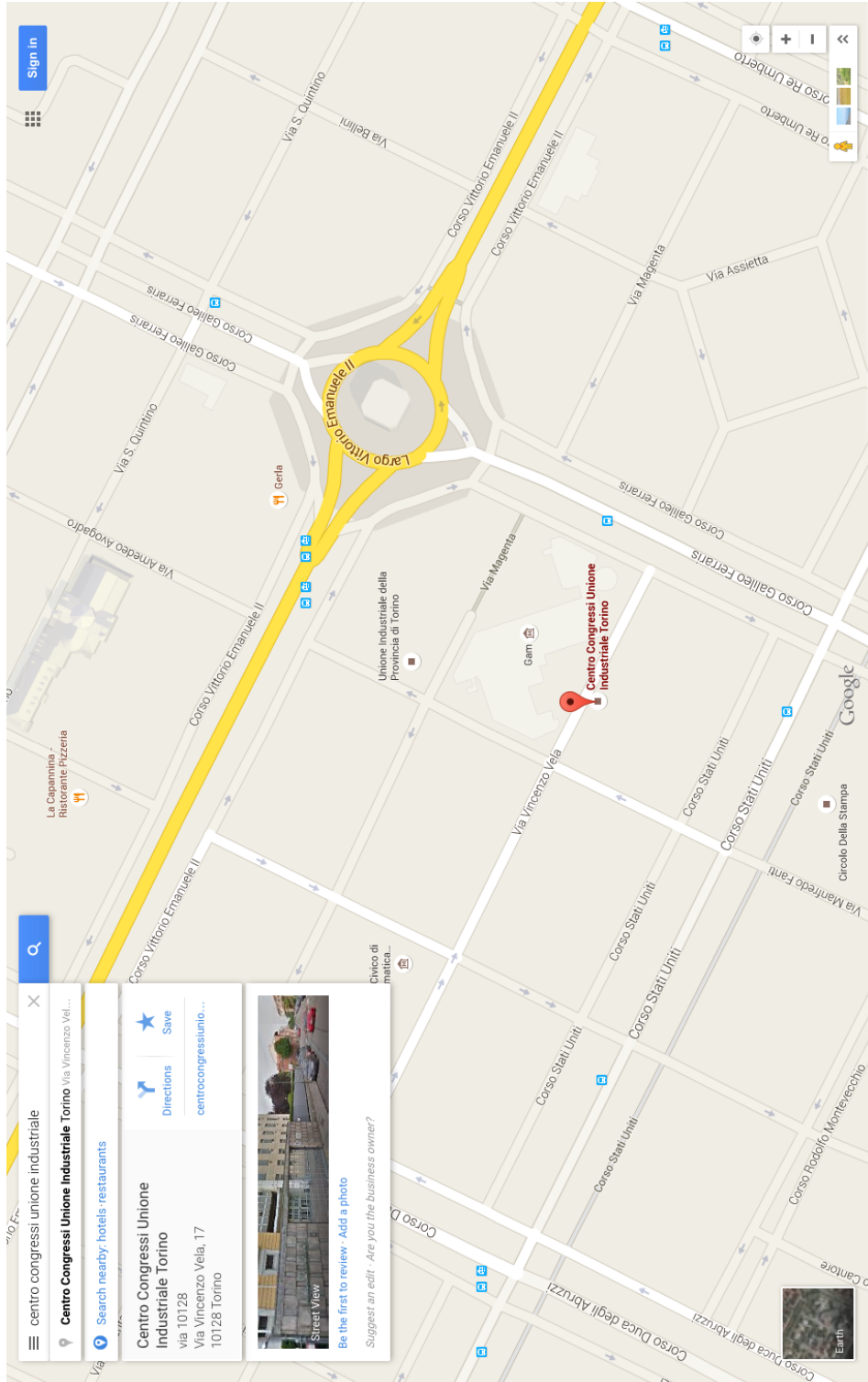
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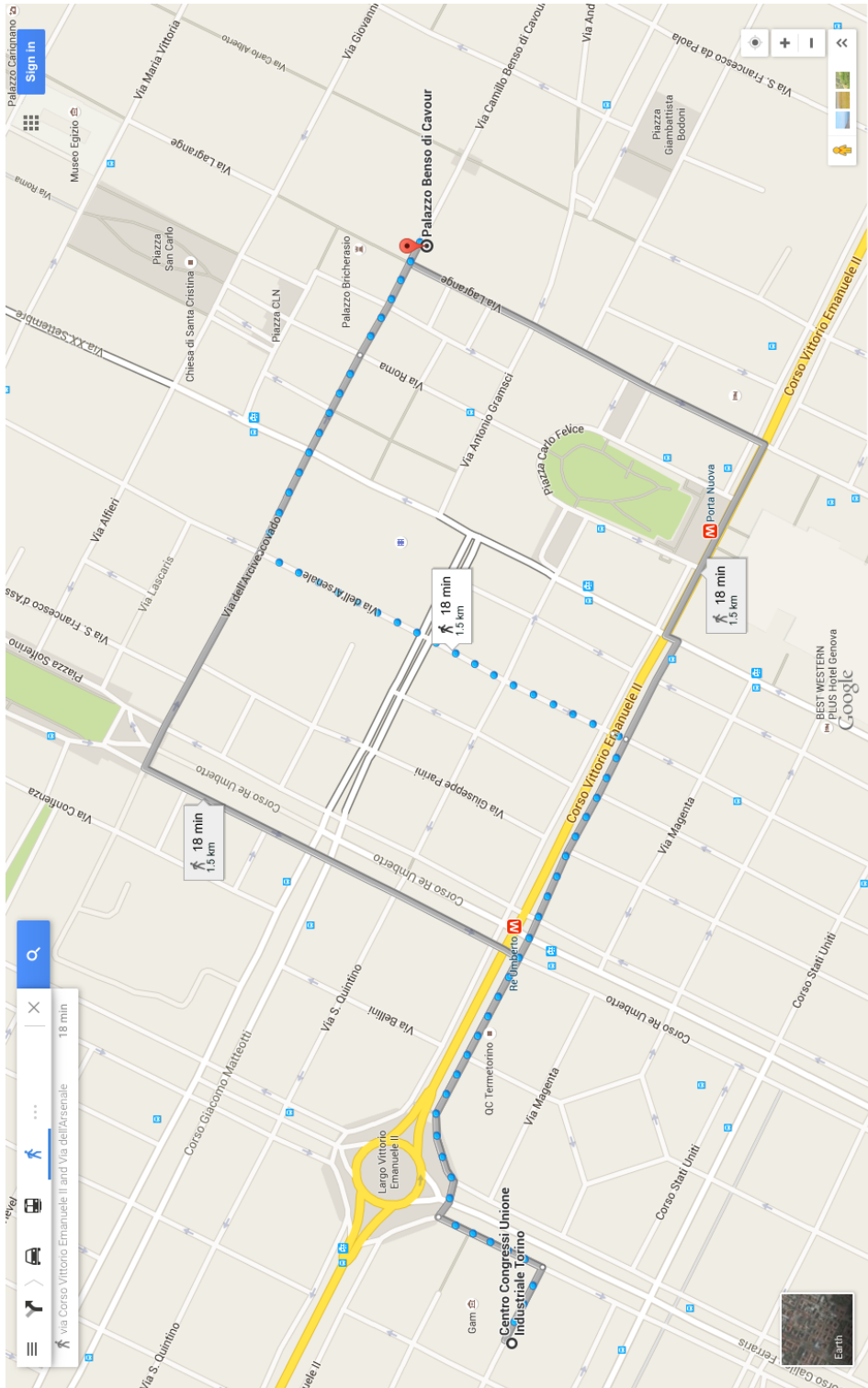
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Social Dinner

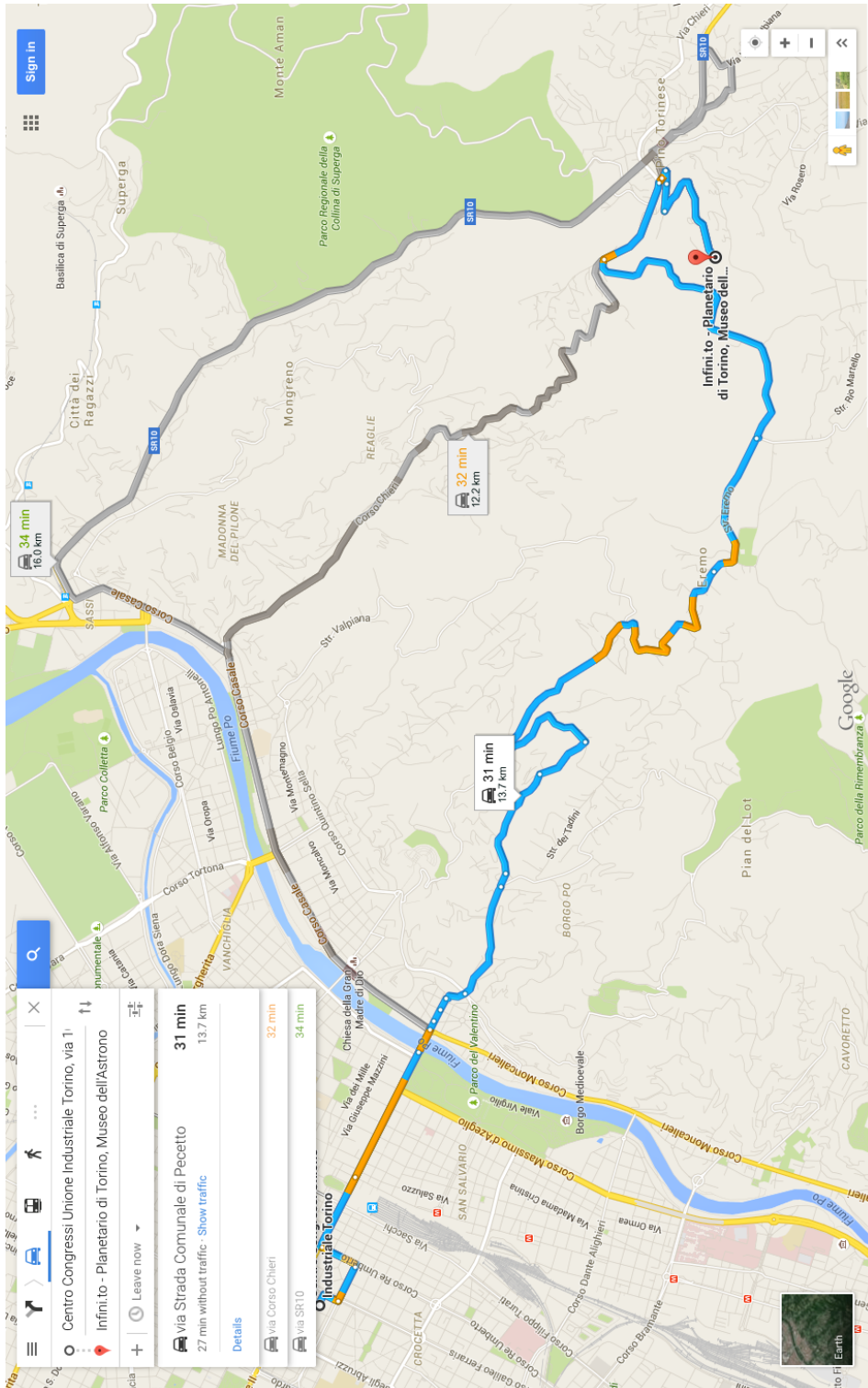
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Planetarium Show

Torino Planetarium Infini.to, Via Osservatorio 30, Pino Torinese





Public Lecture

Accademia delle Scienze di Torino, Via Accademia delle Scienze 6, Torino
 (same entrance as the Egyptian Museum)

