

CosPA 2016

Monday, 28 November 2016 - Friday, 2 December 2016

Programme

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Monday 28 November 2016

Registration - Foyer (08:15-18:15)

Plenary - 4002 (08:45-10:30)

-Conveners: Jisuke Kubo

time	[id] title	presenter
08:45	[155] Opening Address	
09:00	[142] Gravitational waves	Prof. MCCLELLAND, David
09:30	[150] Theories of modified gravity	TSUJIKAWA, Shinji
10:00	[145] Tests of modified gravity	Dr. PARKINSON, David

Plenary - 4002 (11:00-12:30)

-Conveners: Jun'ichi Yokoyama

time	[id] title	presenter
11:00	[152] Neutrino experiments	Prof. WANG, Wei
11:30	[154] Neutrino mass in the landscape of vacua	Prof. YANAGIDA, Tsutomu
12:00	[136] Axions	KIM, Jihn E.

Particle astrophysics - 3001 (14:00-15:40)

-Conveners: Clancy James

time	[id] title	presenter
14:00	[11] Measuring the Leptonic Dirac CP Phase with Muon Decay at Rest	GE, Shao-Feng
14:20	[18] Neutrino mass and hierarchy determination from new physics	PRITIMITA, Prativa
14:40	[9] Measuring the Neutrino Mass Ordering with KM3NeT-ORCA	KOUCHNER, Antoine David
15:00	[12] Highlights of the ANTARES neutrino telescope results	MARGIOTTA, Annarita
15:20	[93] Muon energy reconstruction in large-scale neutrino detectors	ROBERTSON, Sally

Gravity and gravitational waves - 3003 (14:00-15:40)

-Conveners: Rohana Wijewardhana

time	[id] title	presenter
14:00	[76] Tensor perturbations in spatially covariant gravity	YOKOYAMA, Jun'ichi
14:20	[122] Exploring a stochastic background of gravitational waves	SAMMUT, Letizia
14:40	[27] Constraining non-commutative space-time from GW150914	LAGGER, Cyril
15:00	[6] Entropy of Horava-Lifshitz Blackholes	Dr. NISAR, shabana
15:20	[90] The quantum thermodynamic universe - an emergent perspective	HOWARD, Eric

Cosmic microwave background and Large Scale Structure - 4001 (14:00-15:40)

-Conveners: Jan Hamann

time	[id] title	presenter
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14:00	[102] New Measurements of CMB Polarisation from SPTpol	Dr. REICHARDT, Christian
14:20	[116] First detection of Galaxy Cluster lensing in CMB polarisation	PATIL, Sanjaykumar
14:40	[96] Cosmology from CMB Polarization with POLARBEAR and the Simons Array	BARRON, Darcy
15:00	[2] Planck large scale polarization	Dr. TRISTRAM, Matthieu
15:20	[68] Oscillations in the CMB angular power spectra at $l \sim 120$	HORIGUCHI, Kouichirou

Dark matter - 4002 (14:00-15:40)

-Conveners: Victor Flambaum

time	[id] title	presenter
14:00	[100] Dark matter searches in LUX	PASCOAL DA SILVA, Claudio Frederico
14:20	[67] Status of COSINE experiment.	ADHIKARI, Pushparaj
14:40	[37] Indirect searches of TeV Dark Matter at the Galactic Center	GAMMALDI, Viviana
15:00	[82] First Results of the GPS.DM Observatory: Search for Dark Matter and Exotic Physics with Atomic Clocks and GPS Constellation	ROBERTS, Benjamin
15:20	[50] Improved constraints on annihilating dark matter from cosmic-ray antiprotons	STREF, Martin

Dark matter - 4002 (16:10-17:30)

-Conveners: Giorgio Busoni

time	[id] title	presenter
16:10	[117] p-wave Annihilating Dark Matter from a Decaying Predecessor and the Galactic Centre Excess	CORNELL, Jonathan
16:30	[73] Semi-Annihilation and Dark Matter Indirect Detection	CAI, Yi
16:50	[92] Dark Forces in the Sky: Signals from Z' and the Dark Higgs	BELL, Nicole
17:10	[105] The Dark Matter Interpretation of the Gamma-Ray Excess at the Galactic Centre	CLARK, Hamish

Cosmic microwave background and Large Scale Structure - 4001 (16:10-17:50)

-Conveners: Luke Barnes

time	[id] title	presenter
16:10	[25] Distinguishing between Warm Dark Matter and Late Kinetic Decoupling using CMB spectral distortions.	DIACOUMIS, James
16:30	[124] Axion as a cold dark matter candidate: Proof to fully nonlinear perturbation	HWANG, Jai-chan
16:50	[88] Dark matter self annihilation in cosmological simulations	IWANUS, Nikolas
17:10	[104] Unveiling the Signatures of an Evolving and Interacting Dark Sector	Ms. ADERMANN, Eromanga
17:30	[119] The Impact of Dark Sector Physics on Large-Scale Structure Topology	Mr. WATTS, Andrew

Particle astrophysics - 3001 (16:10-17:30)

-Conveners: Roland Crocker

time	[id] title	presenter
16:10	[94] Prospects for detection of neutrinos in correlation with starburst galaxies	KYRIACOU, Alex
16:30	[128] Gas Towards Gamma-Ray-Emitting Supernova Remnants	MAXTED, Nigel
16:50	[26] Collapse of Axion Stars	WIJEWARDHANA, Rohana
17:10	[89] Soft X-ray excess from cosmic ALPs in magnetohydrodynamical cluster simulations	ANGUS, Stephen

Inflation and early universe cosmology - 3003 (16:10-17:30)

-Conveners: Sujeet Akula

time	[id] title	presenter
16:10	[51] Primordial massive gravitational waves in the squeezed vacuum state	Ms. NAULAK, Malsawmtluangi
16:30	[49] Electroweak scale genesis by dynamical scale symmetry breaking and strong scale phase transition in the early universe	KUBO, Jisuke
16:50	[41] Gravitational Waves from Low Temperature Phase Transitions	MANNING, Adrian
17:10	[55] Probing physics behind the electroweak symmetry breaking at future gravitational wave interferometers and future collider experiments	KAKIZAKI, Mitsuru

Event: Welcome Reception - Foyer (18:00-20:00)

Tuesday 29 November 2016

Plenary - 4002 (09:00-10:30)

-Conveners: Nicole Bell

time	[id] title	presenter
09:00	[135] Dark matter theory	GONDOLO, Paolo
09:30	[141] Dark matter direct detection	Prof. LINDNER, Manfred
10:00	[159] Darkly-Charged Dark Matter	RANDALL, Lisa

Plenary - 4002 (11:00-12:30)

-Conveners: Gary Hill

time	[id] title	presenter
11:00	[132] Galactic positron population	CROCKER, Roland
11:30	[144] AMS	PANICCIA, Mercedes
12:00	[47] The Pierre Auger Observatory	Dr. BELLIDO, Jose

Dark matter - 4002 (14:00-15:40)

-Conveners: Yi Cai

time	[id] title	presenter
14:00	[121] Global fits of the scalar singlet model using GAMBIT	MCKAY, James
14:20	[43] Effective vector and fermion Higgs portal: A global study with GAMBIT	Mr. BENIWAL, Ankit
14:40	[111] Evaporation on Gev-ish DM in the Sun	BUSONI, Giorgio
15:00	[84] Plasma Dark matter direct detection	Dr. FOOT, Robert
15:20	[62] Halo-independent tests of dark matter direct detection signals	Dr. HERRERO GARCIA, Juan

Particle physics - 3003 (14:00-15:40)

-Conveners: Matthew Dolan

time	[id] title	presenter
14:00	[64] Collider searches for Higgs portal DM models	KO, pyungwon
14:20	[44] The muon g-2 and dark matter in the MSSM at 100 TeV	TALIA, Matthew
14:40	[87] Mono-top/bottom signature in natural SUSY at LHC	Dr. WU, Lei
15:00	[103] CP violating Top-Higgs couplings in Light of LHC Run-2	Dr. LIU, Ning
15:20	[157] Implication of ALEPH 30 GeV dimuon resonance at the LHC	YU, Chaehyun

Cosmic microwave background and Large Scale Structure - 3001 (14:00-15:40)

-Conveners: David Parkinson

time	[id] title	presenter
14:00	[3] Relieving tensions related to the lensing of CMB temperature power spectra	Dr. TRISTRAM, Matthieu
14:20	[59] Planck constraints on scalar-tensor cosmology and the variation of the gravitational constant	OOBA, Junpei

14:40	[86] Modeling bispectrum in redshift space from perturbation theory	Mr. HASHIMOTO, Ichihiko
15:00	[101] Testing Inflationary Models with Galaxy Formation Simulations	BARNES, Luke
15:20	[52] Growth of perturbations in dark energy cosmologies	MALEKJANI, Mohammad

Inflation and early universe cosmology - 4001 (14:00-15:40)

-Conveners: Kazunori Kohri

time	[id] title	presenter
14:00	[65] Inflation from Supergravity with Gauged R-symmetry in de Sitter Vacuum	Dr. KNOOPS, Rob
14:20	[7] Multi-phase inflation and endlessly flat scalar potentials	Dr. ARTYMOWSKI, Michal
14:40	[38] Natural Inflation with Hidden Scale Invariance	LIANG, Shelley
15:00	[23] Ahead of the hunt: leading small field inflationary potential models.	Mr. WOLFSON, Ira
15:20	[57] Violent preheating in inflation with nonminimal coupling	Dr. JINNO, Ryusuke

Inflation and early universe cosmology - 4001 (16:10-17:30)

-Conveners: Archil Kobakhidze

time	[id] title	presenter
16:10	[97] Blue tensor spectra with slightly parity-violated from axion-gauge couplings	OBATA, Ippei
16:30	[48] Naturalness of the relaxion mechanism	Dr. FOWLIE, Andrew
16:50	[160] Gravitational waves at aLIGO and vacuum stability with a scalar singlet extension of the Standard Model	BALAZS, Csaba
17:10	[40] Gravitational Wave Instabilities in the Cosmic Neutrino Background	BARRIE, Neil

Dark matter - 4002 (16:10-17:30)

-Conveners: pyungwon ko

time	[id] title	presenter
16:10	[70] New effects of dark matter which are linear in the interaction strength	Prof. FLAMBAUM, Victor
16:30	[78] Searching for dark matter and exotic bosons with atoms, molecules and ultracold neutrons	STADNIK, Yevgeny
16:50	[114] Quantum and Classical Behaviour of Axion Dark Matter	Prof. HERTZBERG, Mark
17:10	[158] A dark matter model with Dirac neutrino masses	BAEK, Seungwon

Cosmic microwave background and Large Scale Structure - 3001 (16:10-17:50)

-Conveners: David Wiltshire

time	[id] title	presenter
16:10	[30] Magnetic fields at cosmological recombination	SAGA, Shohei
16:30	[71] Test of the Einstein equivalence principle with CMB spectral distortions	Dr. TASHIRO, Hiroyuki
16:50	[107] Differential expansion and its observational impact in cosmology	BOLEJKO, Krzysztof
17:10	[56] Shear and rotation in massive galaxy clusters	MEHRABI, Ahmad
17:30	[32] Cosmological effects of Late Forming Dark Matter	Mr. SARKAR, Abir

Particle astrophysics - 3003 (16:10-17:30)**-Conveners: Mercedes Paniccia**

time	[id] title	presenter
16:10	[81] Precision Measurement of the Positron, Electron and Antiproton Fluxes in Primary Cosmic Ray with the Alpha Magnetic Spectrometer on the International Space Station	WENG, Zhili
16:30	[120] Precision Measurement of Nuclei Fluxes and their Ratios in Primary Cosmic Rays with the Alpha Magnetic Spectrometer on the International Space Station	FORMATO, Valerio
16:50	[85] Astrophysical signatures from Galactic positronium, true muonium and true tauonium	ELLIS, Simon
17:10	[24] The Statistics of Unresolved Point-Source Populations	RODD, Nicholas

Event: Public talk (19:00-20:30)

Wednesday 30 November 2016

Plenary - 4002 (09:00-10:30)

-Conveners: Christian Reichardt

time	[id] title	presenter
09:00	[147] Inflation	Prof. SASAKI, Misao
09:30	[134] Planck CMB results	GALLI, Silvia
10:00	[139] Cosmological surveys	LEWIS, Geraint

Plenary - 4002 (11:00-12:30)

-Conveners: mihoko nojiri

time	[id] title	presenter
11:00	[148] Astroparticle tests of dark matter theories	SCOTT, Pat
11:30	[143] Mono-X, dijet, and long-lived particle searches at the LHC	MCDONALD, Millie
12:00	[137] Invisible Higgs decays, SUSY searches and BSM Higgs at the LHC	KUO, Chia-Ming

Thursday 01 December 2016

Plenary - 4002 (09:00-10:30)

-Conveners: Antoine David Kouchner

time	[id] title	presenter
09:00	[138] Baryo-/Leptogenesis	KUSENKO, Alexander
09:30	[13] Neutrino studies in the Mediterranean: the KM3NeT/ARCA neutrino telescope	JAMES, Clancy
10:00	[129] IceCube Neutrinos	Prof. ADAMS, Jenni

Plenary - 4002 (11:00-12:30)

-Conveners: Matthieu TRISTRAM

time	[id] title	presenter
11:00	[140] Dark energy	Prof. LINDER, Eric
11:30	[149] Consistency checks of LCDM	Dr. SHAFIELOO, Arman
12:00	[153] Inhomogeneous Cosmology	WILTSHIRE, David

Event: AP CosPA Org Council and General Assembly Joint Meeting - 4020 (12:30-14:00)

Inflation and early universe cosmology - 4001 (14:00-15:40)

-Conveners: Andrew Fowlie

time	[id] title	presenter
14:00	[79] Testing the low scale seesaw and leptogenesis	GUETER, Dario
14:20	[58] Electroweak baryogenesis in the Z3-invariant NMSSM	WHITE, Graham
14:40	[34] A Strong Electroweak Phase Transition from the Inflaton Field	TENKANEN, Tommi
15:00	[45] Efficient perturbative determination of bubble wall profiles	Dr. AKULA, Sujeet
15:20	[42] The effects of monopoles on the electroweak phase transition	ARUNASALAM, Suntharan

Cosmological models - 3003 (14:00-15:00)

-Conveners: Krzysztof Bolejko

time	[id] title	presenter
14:00	[20] All-scale cosmological perturbations and screening of gravity in inhomogeneous Universe	Dr. EINGORN, Maxim
14:20	[28] Uniformity of Cosmic Microwave Background as a Non-Inflationary Geometrical Effect	VLAHOVIC, Branislav
14:40	[14] CMB Hemispherical Power Asymmetry & Noncommutative Spacetimes	Mr. KOTHARI, Rahul

Dark matter - 4002 (14:00-15:20)

-Conveners: Robert Foot

time	[id] title	presenter
14:00	[63] Particle Physics Models for DM-DR interactions	KO, pyungwon
14:20	[54] Triplet-Quadruplet Fermionic Dark Matter	YU, Zhao-Huan

14:40	[61] Right-handed neutrino dark matter under the B-L gauge interaction	KANETA, Kunio
15:00	[106] Probing mixed complex scalar WIMP dark matter	SANTA, Akiteru

Gravity and gravitational waves - 3001 (14:00-15:40)

-Conveners: Shinji Tsujikawa

time	[id] title	presenter
14:00	[36] Gravitation, Causality, and Quantum Consistency	Prof. HERTZBERG, Mark
14:20	[127] Black Hole Thermodynamics, Expanding Universe and Dark Energy	Prof. KIM, Sang Pyo
14:40	[53] Relation between gauge fixing and DOFs in scalar-tensor theories	TAKAHASHI, Kazufumi
15:00	[126] Dynamical brane backgrounds	UZAWA, Kunihito
15:20	[123] Special relativistic hydrodynamics with gravitation	HWANG, Jai-chan

Particle physics - 3003 (16:10-17:30)

-Conveners: Hai-Yang Cheng

time	[id] title	presenter
16:10	[108] MeV scale leptonic force for cosmic neutrino spectrum and muon anomalous magnetic moment	Prof. SATO, Joe
16:30	[110] Search for a light L_{μ} - L_{τ} gauge boson at Belle II	Ms. HOSHINO, Shihori
16:50	[69] Partial Gauge Invariant SM	KEPULADZE, Zurab
17:10	[72] Radiative neutrino mass generation for a dimension 7 gauge-invariant operator and its implication for charge lepton flavor violation	Mr. GHADIRIAN, Bahman

Dark matter - 4002 (16:10-17:10)

-Conveners: Juan Herrero Garcia

time	[id] title	presenter
16:10	[113] Relic Abundance in Secluded Dark Matter Scenario with Massive Mediator	YAMANAKA, Masato
16:30	[118] A map of the non-thermal WIMP	SHIN, Chang Sub
16:50	[99] Determining the Local Dark Matter Density	SILVERWOOD, Hamish

Inflation and early universe cosmology - 4001 (16:10-17:10)

-Conveners: Geraint Lewis

time	[id] title	presenter
16:10	[112] Resurrection of large lepton number asymmetries and their cosmological implications	PARK, Wanil
16:30	[75] Adiabatic Invariance of I-balls/Oscillons	TAKEDA, Naoyuki
16:50	[74] Production of axion CDM from strings and domain-walls	Dr. SEKIGUCHI, Toyokazu

Event: Conference Dinner (19:00-22:00)

Friday 02 December 2016

Plenary - 4002 (09:00-10:30)

-Conveners: Csaba Balazs

time	[id] title	presenter
09:00	[131] Fermi LAT	Dr. CAPUTO, Regina
09:30	[146] The Cherenkov Telescope Array: A TeV Gamma-Ray Observatory	ROWELL, Gavin
10:00	[133] Dark Energy with the Dark Energy Survey	Prof. DAVIS, Tamara

Plenary - 4002 (11:00-12:30)

-Conveners: Sang Pyo Kim

time	[id] title	presenter
11:00	[130] SABRE	BARBERIO, Elisabetta
11:30	[151] Outlook for the discovery of new physics	VOLKAS, Raymond
12:00	[156] Closing	