

# HORIBA INTERNATIONAL CONFERENCE

## COSMO/CosPA 2010

### Parallel Sessions Program

Monday afternoon Parallel session A

Sanjo Conference Hall  
Chair Masahiro Kawasaki

14:15	20	He	Xiao-Gang	NTU & SJTU	Direct search and LHC detection of the simplest Dark Matter
14:35	20	Cirelli	Marco	CERN-TH & CNRS IPhT Saclay	Gamma ray and cosmological constraints on Dark Matter with large annihilation cross section
14:55	20	Kyae	Bumseok	Pusan National Univ.	PAMELA's cosmic positron from decaying LSP in SO(10) SUSY GUT
15:15	15	Petraki	Kalliopi	University of Melbourne	Constraints on late-decaying dark-matter models
15:30	15	Saito	Ryo	RESCEU The University of Tokyo	Primordial black holes as the boost factor
15:45	15	Kawanaka	Norita	KEK	Cosmic Ray Electrons/Positrons from Nearby Pulsars and Their GeV-TeV Spectral Features
16:00	15	Grefe	Michael	DESY Hamburg	Neutrino Signals from Dark Matter Decay
16:15	30	Break			
16:45	15	Iocco	Fabio	Institut d'Astrophysique de Paris	Dark Matter and Stars
17:00	15	Arina	Chiara	Universite Libre de Bruxelles (ULB)	Phenomenology of Spontaneously Broken Dark Matter Hidden Sector
17:15	15	Motz	Holger	Erlangen Centre for Astroparticle Physics, U. Erlangen-Nuremberg	Status and Results of the ANTARES neutrino telescope
17:30	15	Kadastik	Mario	NICPB / CERN	Anti-deuteron as a possible DM detection channel
17:45	15	Ishihara	Aya	Chiba University	Recent results from searches for high energy cosmic neutrinos with IceCube
18:00	15	Nonoyama	Yoshiaki	Nagoya University	Status of the OPERA experiment
18:15	15	Park	Seongchan	IPMU The University of Tokyo	Kaluza-Klein Dark Matter
18:30	15	Seto	Osamu	Hokkai-Gakuen University	Right-handed neutrino dark matter in the minimal gauged B-L model
18:45		End			

Monday afternoon Parallel session B

Koshiba Hall, Science Bldg 1, 2F  
Chair Shinji Mukohyama

14:15	20	Vikman	Alexander	CERN	Dust of Dark Energy
14:35	20	Wang	Bin	Shanghai Jiao Tong University	Interaction between Dark Energy and Dark Matter
14:55	20	Suyama	Teruaki	RESCEU The University of Tokyo	Dark energy from primordial inflationary quantum fluctuations
15:15	15	Sapone	Domenico	University of Madrid	Fingerprinting Dark Energy: observational tests.
15:30	15	Ballesteros	Guillermo	University of Padova	Dark energy with non-adiabatic sound speed
15:45	15	Calabrese	Erminia	University of Rome 'La Sapienza'	Probing the dark energy sound speed with lensing
16:00	15	Tretyakov	Petr	JINR	Stability of dS and other cosmological regimes in high order gravity models.
16:15	30	Break			
16:45	15	Motohashi	Hayato	RESCEU The University of Tokyo	Matter density fluctuation and massive neutrinos in $f(R)$ gravity
17:00	15	Gu	Je-An	LeCosPA National Taiwan University	$f(R)$ Modified Gravity and its Cosmological and Solar-System Tests
17:15	15	Bamba	Kazuharu	National Tsing Hua University	Thermodynamics in modified gravity
17:30	15	Figueroa	Daniel	Helsinki Institute of Physics	New Aspects of Phase Transitions in the Early Universe
17:45	15	Tawfik	Abdel Nasser	ECTP	Thermodynamically Consistent Equations of State for Viscous Early Universe
18:00	15	Bo-ot	Luis Maria	University of the Philippines-Diliman	Two and Three-Dimensional Self-gravitating System with an Initial Singularity
18:15	15	Menegoni	Eloisa	University of Rome La Sapienza	New Cosmological Constraints on Variation of Fundamental Constants
18:30	15	Maity	Debaprasad	LeCosPA National Taiwan University	Cosmological Behavior of a Parity and Charge-Parity Violating Varying Alpha Theory.
18:45		End			

**Monday afternoon Parallel session C**

**Rm 206, Science Bldg 1, 2F  
Chair Takahiro Tanaka**

14:15	15	Gong	Jinn-Ouk	Instituut-Lorentz for Theoretical Physics	Loop corrections to the correlation functions
14:30	15	Rajantie	Arttu	Imperial College London	Non-Gaussianity from preheating
14:45	15	Chongchitnan	Sirichai	Oxford University	High-Order Non-Gaussianity and its Effects on Cluster and Void Abundances.
15:00	15	Flauger	Raphael	Yale University	Resonant Non-Gaussianity
15:15	15	Bartolo	Nicola	Dip. di Fisica "G. Galilei"	Some novel results on non-Gaussianity from single-field inflation and on anisotropic features
15:30	15	Musso	Marcello	ICTP	Improved non-Gaussian Mass Functions for Halos and Voids
15:45	15	Nishimichi	Takahiro	IPMU The University of Tokyo	Effect of Non-Gaussianity from Multi-Field Models on the Large Scale Structure
16:00	15	Desjacques	Vincent	ITP Zurich	Searching for local cubic-order non-Gaussianity with galaxy clustering
16:15	30	Break			
16:45	20	Pitrou	Cyril	ICG, University of Portsmouth	Non-Gaussianity from non-linear effects in CMB
17:05	20	Takahashi	Tomo	Saga University	Classifying Models of Large non-Gaussianity
17:25	20	Takamizu	Yuichi	RESCEU The University of Tokyo	Beyond delta-N formalism for a single scalar field
17:45	15	Kobayashi	Takeshi	The University of Tokyo	Non-Gaussianity from Lifshitz Scalar
18:00	15	Watanabe	Yuki	University of Munich	Primordial non-Gaussianity from multi-field inflation re-examined
18:15	15	Izumi	Keisuke	IPMU The University of Tokyo	Trispectrum from Ghost Inflation
18:30	15	Mizuno	Shuntaro	University of Portsmouth	Trispectrum estimator in equilateral type non-Gaussian models
18:45		End			

**Monday afternoon Parallel session D**

**Rm 207, Science Bldg 1, 2F  
Chair Masahide Yamaguchi**

14:15	15	Kohri	Kazunori	KEK	Long-lived charged SUSY particles and cosmology
14:30	15	Nakayama	Kazunori	KEK	Inflation from a Supersymmetric Axion Model
14:45	15	Gumrukcuoglu	Emir	IPMU The University of Tokyo	Phenomenological signature from anisotropic inflation
15:00	15	Scardigli	Fabio	LeCosPA National Taiwan University	Pre-inflation matter era and the CMB power spectrum
15:15	15	Chinone	Yuji	Tohoku University	Measurement of Cosmic Microwave Background Polarization Power Spectra from QUIET Q-Band Data
15:30	15	Zhan	Hu	National Astronomical Observatories of China	Rees-Sciama effect of super structures
15:45	15	Easson	Damien	Arizona State U., and IPMU	Fundamental physics of inflation and CMB
16:00	15	Finelli	Fabio	INAF/IASF Bologna	CMB Constraints on a Stochastic Background of Primordial Magnetic Fields
16:15	30	Break			
16:45	20	Ng	Kin-Wang	Academia Sinica	Towards understanding large-scale CMB anomalies
17:05	20	Melchiorri	Alessandro	University of Rome Sapienza	Constraining Fundamental Physics with Future CMB Experiments
17:25	20	Ringeval	Christophe	Louvain University	First CMB constraints on the inflationary reheating temperature
17:45	15	Saikawa	Ken'ichi	ICRR The University of Tokyo	Gravitational waves from collapsing domain walls
18:00	15	Hiramatsu	Takashi	YITP Kyoto University	Gravitational waves from Q-balls in gravity mediation
18:15	15	Kamada	Kohei	RESCEU The University of Tokyo	Fate of Q balls in thermal potential
18:30	15	Yajnik	Urjit	IIT Bombay	Cosmology with new symmetries at the TeV scale
18:45		End			

20 = 17minutes talk + 3 minutes discussion  
15 = 12minutes talk + 3 minutes discussion

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**Thursday afternoon Parallel session E****Rm 206, Science Bldg 1, 2F  
Chair Masahiro Yamaguchi**

14:15	15	Geng	Chao-Qiang	National Tsing Hua University	Neutrino Masses, Leptogenesis and Decaying Dark Matter
14:30	15	Kadota	Kenji	Univ. of Michigan	The effects of SUSY seesaw on the LHC and dark matter
14:45	15	Chen	Chuan-Ren	IPMU The University of Tokyo	The variant axion models at the LHC
15:00	20	Drewes	Marco	Ecole Polytechnique Fédérale de Lausanne	Quantum Mechanics of Leptogenesis
15:20	20	Sekiguchi	Toyokazu	ICRR The University of Tokyo	Improved estimation of spectrum of axion radiation from cosmological axionic strings
15:40	20	Inoue	Yoshizumi	The University of Tokyo	Tokyo axion experiment
16:00	30	Break			
16:30	20	Bell	Nicole	The University of Melbourne	Dark Matter Annihilation with Electroweak Bremsstrahlung
16:50	20	McDonald	John	University of Lancaster	Baryomorphosis: Relating the baryon asymmetry to the "WIMP Miracle"
17:10	20	Choi	Ki Young	Pusan National University	Three body decay of Gravitino and the indirect detection
17:30		End			

**Thursday afternoon Parallel session F****Rm 207, Science Bldg 1, 2F  
Chair Naoshi Sugiyama**

14:15	15	Sefusatti	Emiliano	IPhT CEA/Saclay	Testing the initial conditions with the large-scale structure
14:30	15	Natarajan	Aravind	Carnegie Mellon University	Distinguishing standard reionization from dark matter models
14:45	15	Pietroni	Massimo	INFN-Padova	Halo bias and velocity dispersion via the Time Renormalization Group
15:00	15	Tashiro	Hiroyuki	Catholic University of Louvain	The cross-correlation between kSZ and 21 cm fluctuations from EoR
15:15	15	Namikawa	Toshiya	The University of Tokyo	Magnification effect on the galaxy-CMB lensing cross-correlation
15:30	15	Ichiki	Kiyotomo	Nagoya University	A spherical collapse model with massive neutrinos
15:45	15	Chang	Feng-Yin	LeCosPA National Taiwan University	Landau Damping of Baryon Structure Formation in the Post Reionization Epoch
16:00	30	Break			
16:30	20	Schmidt	Fabian	Caltech	Clustering and velocities of dark matter halos with primordial non-Gaussianity
16:50	20	Taruya	Atsushi	RESCEU, The University of Tokyo	Baryon Acoustic Oscillations in 2D: modeling redshift-space power spectrum from perturbation theory
17:10	20	Yoshida	Naoki	IPMU, University of Tokyo	New insight on the nature of dark matter from cosmological simulations
17:30		End			

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**Thursday afternoon Parallel session G**

**Rm 233, Science Bldg 1, 2F  
Chair Fuminobu Takahashi**

14:15	20	Kinney	William	State University of New York at Buffalo	Inflation, Cyclic Cosmology, and the Horizon
14:35	20	Martin	Jerome	Institut d'Astrophysique de Paris	Collapse of small-scale density perturbations during reheating and generation of gravitational waves
14:55	20	Kobayashi	Tsutomu	RESCEU The University of Tokyo	G-inflation
15:15	15	Antusch	Stefan	MPI of Physics, Munich	Particle physics models of inflation in supergravity: New developments
15:30	15	Clesse	Sebastien	SPT - Brussels Univ., CP3 - Louvain Univ.	Hybrid inflation along waterfall trajectories
15:45	15	Cluzel	Emeline	IAP/IPhT Saclay	Brane Bremsstrahlung in DBI Inflation
16:00	30	Break			
16:30	15	Seahra	Sanjeev	University of New Brunswick	Polymer inflation
16:45	15	Steinwachs	Christian	University of Cologne	The Higgs Field as an Inflaton
17:00	15	Lerner	Rose	Lancaster University	Detectability of Higgs inflation and its variants
17:15	15	Germani	Cristiano	Ludwig-Maximilians-University	New Higgs Inflation
17:30		End			

**Thursday afternoon Parallel session H**

**Koshiba Hall, Science Bldg 1, 2F  
Chair Hideo Kodama**

14:15	20	Volkas	Raymond	The University of Melbourne	The standard model plus gravity with classical scale invariance
14:35	20	Kim	Sang Pyo	Kunsan National University	Effective Action for Gravity and Dark Energy
14:55	20	Mukohyama	Shinji	IPMU, The University of Tokyo	Cosmological implications of gravity at a Lifshitz point
15:15	15	Peter	Patrick	Institut d'Astrophysique de Paris	Cosmological Two-Stream Instability
15:30	15	Taanila	Olli	Helsinki Institute of Physics	The TeV-mass Curvaton
15:45	15	Pandolfi	Stefania	University of Rome La Sapienza	Harrison-Z'eldovich primordial spectrum is consistent with observations
16:00	30	Break			
16:30	15	Naruko	Atsushi	YITP Kyoto University	second order Boltzmann equation with polarization
16:45	15	Urakawa	Yuko	Waseda university	Implications of genuine gauge-invariant perturbation
17:00	15	Gerstenlauer	Mischa	University of Heidelberg	Inflationary Infrared Divergences: Geometry of the Reheating Surface vs. delta N Formalism
17:15	15	Padilla	Antonio	University of Nottingham	Bigalileon theory
17:30		End			

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