

IV INTERNATIONAL WORKSHOP ON THE INTERCONNECTION BETWEEN PARTICLE PHYSICS AND COSMOLOGY

PPC 2010

NATIONAL UNIVERSITY LIBRARY
TORINO, 12–16 JULY 2010

SCIENTIFIC PROGRAM

JULY 12			
08.30 – 09.45	75'	Registration	
09.45 – 10.00	15'	Welcome N. Fornengo, A. Conte A. Staiano, F. Porticelli	
<i>Chairman: A. Diaferio</i> 10.00 – 10.30 10.30 – 11.00	30' 30'	S. Myers C. Munoz	The CERN Large Hadron Collider Models of new physics for dark matter
11.00 – 11.30	30'	Coffee Break and Registration	
<i>Chairman: M. Lindner</i> 11.30 – 11.50 11.50 – 12.10 12.10 – 12.30	20' 20' 20'	S. Scopel G. Polesello B. Dutta	Supersymmetric dark matter Dark matter and the LHC Cosmological connection from accelerator experiments
12.30 – 14.30	120'	Lunch Break	
<i>Chairman: C. Munoz</i> 14.30 – 15.00 15.00 – 15.30 15.30 – 16.00 16.00 – 16.20	30' 30' 30' 20'	R. Mohapatra E. Lisi A. Ibarra J. Kumar	Theories beyond the Standard Model Neutrinos: phenomenological review and status Decaying dark matter WIMPlless dark matter
16.20 – 17.00	40'	Coffee Break	
<i>Chairman: S. Scopel</i> 17.00 – 17.20 17.20 – 17.40 17.40 – 18.00 18.00 – 18.20	20' 20' 20' 20'	S. Rolli F. Hubaut J.P. Chou R. Snellings	Latest results from CDF and D0 ATLAS CMS ALICE

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JULY 13			
<i>Chairman: R. Mohapatra</i> 09.00 – 09.30 09.30 – 10.00 10.00 – 10.20	30' 30' 20'	A. Slosar S. Hannestad F. Iocco	Cosmological constraints Cosmic neutrinos Constraining dark matter scenarios with CMB observations
10.20 – 11.00	40'	Coffee Break	
<i>Chairman: M. Mangano</i> 11.00 – 11.30 11.30 – 12.00 12.00 – 12.20	30' 30' 20'	S. Capozziello G. Angus G. La Vacca	Dark energy Modified gravity and galaxies Mildly mixed coupled models
12.20 – 14.30	130'	Lunch Break	
<i>Chairman: A. Bottino</i> 14.30 – 15.00 15.00 – 15.20 15.20 – 15.40 15.40 – 16.00 16.00 – 16.20	30' 20' 20' 20' 20'	G. Yepes P. Belli V. Mandic E. Pantic M. Pato	Numerical simulations: from galaxies to LSS Dark matter direct detection: the DAMA annual modulation results Dark matter direct detection: CDMS Dark matter direct detection: XENON100 Systematic uncertainties in the determination of the local dark matter
16.20 – 16.50	30'	Coffee Break	
<i>Chairman: B. Dutta</i> 16.50 – 17.10 17.10 – 17.30 17.30 – 17.50 17.50 – 18.10 18.10 – 18.30	20' 20' 20' 20' 20'	J. Adams T. Chiarusi S. Serego Alighieri S.K. Kang S. Antusch	Neutrino telescopes: Icecube ANTARES Cosmological birefringence: a fundamental physics test Effects of large threshold corrections in supersymmetric type-I seesaw Particle physics models of inflation in supergravity: new developments

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JULY 14			
<i>Chairman: S. Bonometto</i> 09.00 – 09.30 09.30 – 10.00 10.00 – 10.30	30' 30' 30'	J. Guy L. Guzzo S. Sarkar	Supernova surveys Probing cosmology and dark energy with galaxy redshift surveys Asymmetric dark matter
10.30 – 11.00	30'	Coffee Break	
<i>Chairman: E. Lisi</i> 11.00 – 11.30 11.30 – 12.00 12.00 – 12.30	30' 30' 30'	M. Lindner B. Dasgupta G. Mangano	KeV sterile neutrino dark matter in extensions of the Standard Model Neutrinos and supernovae Status of Big Bang Nucleosynthesis
12.30 – 14.30	120'	Lunch Break	
<i>Chairman: F. Donato</i> 14.30 – 15.00 15.00 – 15.30 15.30 – 15.50 15.50 – 16.10 16.10 – 16.30	30' 30' 20' 20' 20'	P. Blasi T. Porter G. Parente M. Boezio W. De Boer	Current status of cosmic rays physics FERMI diffuse gamma rays and propagation models AUGER Antimatter in space Indirect DM searches in the light of FERMI, EGRET, INTEGRAL and PAMELA
16.30 – 17.00	30'	Coffee Break	
<i>Chairman: V. Mandic</i> 17.00 – 17.20 17.20 – 17.40 17.40 – 18.00 18.00 – 18.20	20' 20' 20' 20'	C. Volpe J. Hartnell M. Messina D. Cline	Search for CP violation in the lepton sector Long baselines neutrinos The T2K experiment in the context of LBL neutrino physics New experiments at the New Underground Laboratories
20.30		Dinner	

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JULY 15			
<i>Chairman: L. Guzzo</i> 09.00 – 09.30 09.30 – 10.00 10.00 – 10.20	30' 30' 20'	S. Zaroubi E. Coccia R. Allahverdi	Cosmology from radio observations Gravitational waves Inflation and the LHC
10.20 – 11.00	40'	Coffee Break	
<i>Chairman: J. Kumar</i> 11.00 – 11.30 11.30 – 12.00 12.00 – 12.20	30' 30' 20'	M. De Naurois F. Sannino T. Bringmann	Ground-based gamma-ray telescopes Electroweak symmetry breaking: scenarios and impact for cosmology Thermal decoupling of WIMPS
12.20 – 14.30	130'	Lunch Break	
<i>Chairman: T. Porter</i> 14.30 – 15.00 15.00 – 15.30 15.30 – 15.50 15.50 – 16.10 16.10 – 16.30	30' 30' 20' 20' 20'	P. Ullio P. Serpico J. Lavalle D. Maurin L. Pieri	Multi-wavelength dark matter searches Leptons in cosmic rays Astrophysical issues in cosmic electron and positron fluxes Baryonic antimatter in cosmic rays Gamma-rays and dark matter
16.30 – 17.00	30'	Coffee Break	
<i>Chairman: L. Pieri</i> 17.00 – 17.20 17.20 – 17.40 17.40 – 18.00 18.00 – 18.20	20' 20' 20' 20'	G. Zaharijas R. Catena A. Silvestri S. Camera	Dark Matter constraints from the Fermi-LAT diffuse gamma ray data Bounds on evolution histories of the early Universe Cosmological tests of General Relativity with tomographic surveys Weak gravitational lensing in modified gravity theories

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JULY 16			
<i>Chairman: G. Yepes</i>			
09.30 – 10.00	30'	P. Di Bari	Baryo/Leptogenesis
10.00 – 10.40	40'	C. Frenk	Outlook from the astrophysics/cosmology viewpoint
10:40 – 11.30	30'	Coffee Break	
<i>Chairman: A. Ferrari</i>			
11.30 – 12.10	40'	A. Masiero	Outlook from the particle physics viewpoint
12.10 – 12.40	30'	C. Baccigalupi	PLANCK
12.40 – 12.50	10'	Farewell to Next Edition	

POSTERS	
U. Abbas	Correlation function measurements at high redshifts
N. Ackerman	Searching for double beta decay with the EXO experiment
I. Gebauer	DMMW: A tool for multi-wavelength dark matter searches
M. Jarvinen	Electroweak phase transition in technicolor
R.T. Konduru	A new light on space-time and matter
M. Minamitsuji	Scalar field in the anisotropic Universe
L. Pattavina	EDELWEISS-II dark matter search: status and results
Y. Takamizu	Non-gaussianity of superhorizon curvature perturbations beyond delta-N
K. Uzawa	Cosmological intersecting brane solutions
L. Visinelli	An integral equation for distorted wave amplitudes