



“Planck 2009”

12th of the series “From the Planck Scale to the ElectroWeak Scale”

Padova, May 25-29, 2009

Programme

Poster Session

Please see the link on the conference homepage

Monday, May 25, 2009 (morning)

Centro Altinate - San Gaetano

(Chair: S.Pokorski, Warsaw Univ.)

08:00-09:00	<i>Registration</i>
09:00-09:15	<i>Opening</i>
09:15-10:15	A. Pomarol (UAB, Barcelona) <i>Models for the Fermi scale</i>
10:15-10:45	J. Weninger (CERN) <i>Status of the LHC machine</i>
10:45-11:15	Coffee Break
	<i>(Chair: J.R. Espinosa, IFAE Barcelona)</i>
11:15-11:45	G. Isidori (INFN, Frascati) <i>Theory and Phenomenology of Heavy Vectors in Higgsless Models</i>
11:45-12:15	B. Grinstein (UC San Diego) <i>A Lee-Wick Extension of the Standard Model</i>
12:15-12:45	A. Falkowski (Rutgers Univ) <i>Higgs was at LEP - supersymmetric models with double protection</i>

12:45-14:30 **Lunch Break** (free)

Monday, May 25 (afternoon)

Centro Altinate - San Gaetano

(Chair: R. Barbieri, SNS Pisa)

14:30-15:30 **L. Ristori** (Fermilab and INFN, Pisa)
Recent results from the Tevatron

15:30-16:00 **M. Mangano** (CERN)
The road from the SM to new physics at the LHC

16:00-16:30 **H.-C. Cheng** (UC Davis)
Invisible particle mass determination at hadron colliders

16:30-17:00 **Coffee Break**

(Chair: F. Feruglio, Padova Univ.)

17:00-17:30 **T. Gherghetta** (Univ. Melbourne)
EWSB with composite W, Z bosons

17:30-18:00 **M. Quiros** (ICREA/IFAE, Barcelona)
Stabilizing soft walls

18:00-18:30 **K. Dienes** (Univ. of Arizona)
A New Approach to Flavor

Physics Department

18:45-19:15 **Aperitivo (front Garden)**

19:15-20:30 **Movie "Chandra" (Aula A)**

Tuesday, May 26 (morning)

Centro Altinate - San Gaetano

(Chair: I. Antoniadis, CERN)

09:00-10:00 **A. Uranga** (CSIC Madrid & CERN)
String phenomenology

10:00-10:30 **A. Hebecker** (Univ. Heidelberg)
A Realistic Unified Gauge Coupling from the Micro-Landscape of Orbifold GUTs

10:30-11:00 **Coffee Break**

(Chair: E. Dudas, Ecole Polytechnique Paris)

- 11:00-11:30 **M. Serone** (SISSA)
An effective description of the landscape
- 11:30-12:00 **M. Ratz** (T.U. Munich)
From strings to the MSSM
- 12:00-12:30 **H.-P. Nilles** (Univ. Bonn)
Cross checks for unification
- 12:30-14:30 **Lunch Break** (free)

Tuesday, May 26 (afternoon)

Physics Department

Parallel Session A, Aula A-Rostagni

(Chair: A. Romanino, SISSA)

- 14:30-14:50 **I. Masina** (Univ. Ferrara and INFN)
Collider Phenomenology of a Fourth Lepton Family in Technicolor Models
- 14:50-15:10 **S. Kraml** (LPSC Grenoble)
Phenomenology of supersymmetric gauge-Higgs unification
- 15:10-15:30 **B. Grzadkowski** (University of Warsaw)
Pragmatic approach to the little hierarchy problem
- 15:30-15:50 **K. Tuominen** (University of Jyvaskyla)
Lattice Studies of Walking Technicolor
- 15:50-16:10 **M. Perez-Victoria** (University of Granada)
The Unhiggs Boson
- 16:10-16:30 **A. Delgado** (University of Notre Dame)
Fermions in the soft-wall

Parallel Session B, Aula C

(Chair: L. Covi, DESY)

- 14:30-14:50 **M. Trapletti** (U. Paris XI & Ecole Polytechnique)
Gauge vs Gravity mediation in string model building
- 14:50-15:10 **C. Scrucca** (EPFL)
Metastable dS vacua in $N=2$ gauged supergravity
- 15:10-15:30 **C. Gross** (Hamburg Univ.)
De Sitter vacua in no-scale string models without uplifting
- 15:30-15:50 **G. Panico** (Bonn University)
Nucleons from 5D Skyrmions

- 15:50-16:10 **M. Zagermann** (MPI for Physics, Munich)
On Type IIA Cosmology From Geometric Fluxes
- 16:10-16:30 **P. Brax** (IPHT Saclay)
Facing Dark Energy in Supergravity

16:30-17:00 **Coffee Break**

Parallel Session A, Aula A-Rostagni
(Chair: T. Gherghetta, Univ. Melbourne)

- 17:00-17:20 **G. Burdman** (Fermilab/Univ of Sao Paulo)
*Electroweak Symmetry Breaking from Fermion
Condensation in AdS₅*
- 17:20-17:40 **V. Rentala** (UC Berkeley/ IPMU, Japan)
*RS graviton spin determination using azimuthal angular
dependence*
- 17:40-18:00 **B. Bellazzini** (Cornell Univ.)
The super-little Higgs with non decoupling D-terms
- 18:00-18:20 **B. Gripaios** (CERN)
Beyond the Minimal Composite Higgs Model
- 18:20-18:40 **L. Vecchi** (SISSA)
*Discriminating between a light composite Higgs and a
dilaton*

Parallel Session B, Aula C
(Chair: H.-P. Nilles, Bonn Univ.)

- 17:00-17:20 **A. Ibarra** (TU Munich)
Cosmic-ray signatures of dark matter decay
- 17:20-17:40 **R. Ziegler** (SISSA)
Tree-level soft masses from SO(10)
- 17:40-18:00 **L. Calibbi** (SISSA)
*Gauge coupling unification, the GUT scale, and magic
fields*
- 18:00-18:20 **J. Schmidt** (DESY)
Heterotic GUT vacua and their exact superpotentials
- 18:20-18:40 **T. Jones** (Liverpool Univ.)
*Anom. Mediated Susy Breaking: spectra, sum rules and
flavour violation*

Centro Altinate - San Gaetano

- 19:00-19:30 **Aperitivo (1st floor, Entrance to the Exhibition)**
- 19:30-20:30 **Guided Tour “The Future of Galileo”**

Wednesday, May 27 (morning)

Centro Altinate - San Gaetano

(Chair: A. Masiero, Padova Univ.)

- 09:00-10:00 **Y. Nir** (Weizmann Inst.)
Flavour physics
- 10:00-10:30 **A. Weiler** (CERN)
Warped Flavor
- 10:30-11:00 **Coffee Break**
- (Chair: S. Petcov, SISSA)*
- 11:00-11:30 **G. Perez** (Weizmann Inst.)
News from the warped flavor frontier
- 11:30-12:00 **R. Bellazzini** (INFN Pisa)
Recent results from Fermi
- 12:00-12:30 **P.D. Serpico** (CERN)
Dark Matter messages from the sky via Gamma rays
- 12:30-14:30 **Lunch Break** (free)

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Free afternoon

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Thursday, May 28 (morning)

Centro Altinate - San Gaetano

(Chair: M. Quiros, ICREA/IFAE)

- 09:00-10:00 **C. Spiering** (DESY Zeuthen)
Astroparticle physics
- 10:00-10:30 **A. Strumia** (Univ. Pisa)
*Implications of the PAMELA and FERMI excesses on
Dark Matter properties*
- 10:30-11:00 **Coffee Break**

(Chair: J.E. Kim, Seoul Nat. Univ.)

- 11:00-11:30 **Y. Nomura** (UC Berkeley)
Dark Matter Signals
- 11:30-12:00 **N. Weiner** (New York Univ.)
Cosmic Ray Signals from Dark Matter
- 12:00-12:30 **L. Randall** (Harvard Univ.)
Flavor From Extra Dimensions
- 12:30-14:30 **Lunch Break** (free)

Thursday, May 28 (afternoon)

Physics Department

Parallel Session A, Aula A-Rostagni

(Chair: A. Strumia, Univ. Pisa)

- 14:30-14:50 **F. Takahashi** (Univ. of Tokyo, IPMU)
Dark Matter as a probe into the early universe
- 14:50-15:10 **E.J. Chun** (KIAS)
Sub-GeV $U(1)$ dark sector in GMSB models
- 15:10-15:30 **J.E. Kim** (Seoul National University)
White dwarf axions, PAMELA data, and flipped-SU(5)
- 15:30-15:50 **S. West** (Royal Holloway U. London)
WIMPonium and Boost Factors for Indirect DM Detection
- 15:50-16:10 **R. Catena** (SISSA)
The Galactic halo: a study from the Dark Matter detection perspective
- 16:10-16:30 **S. Rajendran** (Stanford)
Astrophysical Probes of Unification

Parallel Session B, Aula C

(Chair: A. Riotto, CERN & INFN Padova)

- 14:30-14:50 **B. Garbrecht** (Madison Univ.)
Low Scale Leptogenesis from Non-Leptonic CP-Phases
- 14:50-15:10 **B. Feldstein** (Boston Univ.)
Spont. Lorentz Violation, Negative Energy and the 2nd Law of Thermodynamics
- 15:10-15:30 **A. Notari** (CERN)
Cosmological Effect of Large Voids: an alternative to Dark Energy?

- 15:30-15:50 **A. Anisimov** (DESY)
Nonequilibrium Dynamics of Scalar Fields in a Thermal Bath
- 15:50-16:10 **P. Creminelli** (ICTP)
Sachs-Wolfe at second order: the CMB bispectrum on large scales
- 16:10-16:30 **S. Kasuya** (Kanagawa University)
Axion isocurvature fluctuations with extremely blue spectrum
- 16:30-17:00 **Coffee Break**

Parallel Session A, Aula A-Rostagni
(Chair: P. Di Bari, Padova Univ.)

- 17:00-17:20 **L. Covi** (DESY)
Gravitino Dark Matter and the LHC
- 17:20-17:40 **T. Hambye** (UL Brussels)
Hidden vector dark matter
- 17:40-18:00 **M. Losada** (Univ. Antonio Narino)
Implications of non-renormalizable operators for baryogenesis and dark matter in the MSSM
- 18:00-18:20 **A. Romagnoni** (LPT - Orsay)
(In)visible Z' and dark matter
- 18:20-18:40 **M. Papucci** (IAS Princeton)
Pamela after Fermi
- 18:40-19:00 **M. McCullough** (Oxford)
Inelastic Dark Matter, Non-Standard Halos and the DAMA/LIBRA Results

Parallel Session B, Aula C
(Chair: M. Ratz, T.U. Munich)

- 17:00-17:20 **E. Fernandez Martinez** (MPI für Physik)
Physics leading to large neutrino non-standard interactions
- 17:20-17:40 **C. Biggio** (MPI Munich)
Neutrino mass hierarchies in the inverse seesaw model
- 17:40-18:00 **S. Blanchet** (Maryland Univ.)
Testing Leptogenesis at the LHC in the type I see-saw
- 18:00-18:20 **S. Trine** (TTP Karlsruhe)
Probing Yukawa unification with K and B mixing
- 18:20-18:40 **C. Smith** (TTP Karlsruhe)
Supersymmetric Minimal Flavor Violation

18:40-19:00 **B. Duling** (TU Munich)
Tree Level Rare Decays in a RS Model with Custodial Protection

20:00 **Banquet at Palazzo della Ragione**

Friday, May 29 (morning)

Centro Altinate - San Gaetano

(Chair: A. Mazumdar, Lancaster Univ.)

09:00-10:00 **S. Matarrese** (Univ. of Padova)
Cosmology

10:00-10:30 **S. Dubovsky** (Stanford University)
Observing the String Axiverse through CMB polarization, CDM power spectrum and astrophysical black holes

Physics Department

10:30-11:00 **Coffee Break**

Parallel Session A, Aula A-Rostagni

(Chair: T. Hambye, UL Brussels)

11:00-11:20 **E. Nardi** (Laboratori Nazionali di Frascati)
Some remarks on the problem of fermion masses

11:20-11:40 **C. Hagedorn** (SISSA)
Phenomenological Imprints of Discrete Flavor Symmetries

11:40-12:00 **M. Nagai** (TU Munich)
Flavored EDMs in SUSY models

12:00-12:20 **E. Molinaro** (SISSA)
Interplay Between 'Low' and 'High' Energy CPV in Flavoured Leptogenesis

12:20-12:40 **S. Lavignac** (IPhT Saclay)
Flavour violation in a predictive leptogenesis scenario

Parallel Session B, Aula C

(Chair: P. Creminelli, ICTP)

11:00-11:20 **J. Noreña** (SISSA)
The Effective Theory of Quintessence: the $w < -1$ Side Unveiled

- 11:20-11:40 **Y. Farzan** (IPM Teheran)
Are small ν masses unveiling the missing mass problem of the universe?
- 11:40-12:00 **E. Trincherini** (SNS Pisa)
The Galileon as a local modification of gravity
- 12:00-12:20 **M. Wick** (TU Munich)
Probing New Physics with $b \rightarrow sll$ and $b \rightarrow s \nu \nu$ transitions
- 12:20-12:40 **S. Gori** (TU Munich)
Predictions for B_s mixing phase in Susy Flavor Models
- 12:40-14:30 **Lunch Break** (free)

Friday, May 29 (afternoon)

Centro Altinate - San Gaetano

(Chair: S. Davidson, Lyon Univ.)

- 14:30-15:00 **N. Toro** (Stanford Univ.)
Searching for New Dark Forces with GeV-Scale Experiments
- 15:00-15:30 **P. Ullio** (SISSA)
The contribution from single substructures to DM signals
- 15:30-16:00 **G. Villadoro** (CERN)
de Sitter Entropy and the Volume of the Universe after Inflation
- 16:00-16:30 **Coffee Break**
- (Chair: G. Costa, Padova Univ.)*
- 16:30-17:00 **V. Rychkov** (SNS and INFN, Pisa)
Some things are just not possible: CFT lessons for BSM phenomenology
- 17:00-17:30 **A. Starinets** (Oxford University)
Holographic recipes for heavy-ion physics
- 17:30-17:45 **Closing**

End of the Conference