Programa del

VIII I.F.T.-U.A.M. Christmas Workshop on Particle Physics

VIII I.F.T.- U.A.M. Christmas Workshop
on Particle Physics

Madrid, 16, 17 and 18 December 2002

Organizing Comitee:

- Enrique Álvarez (I.F.T.-U.A.M.)
- Alberto Casas (I.F.T.-C.S.I.C.)
- José Ramón Espinosa (I.F.T.-C.S.I.C.)
- Belén Gavela (I.F.T.-U.A.M.)
- Juan García Bellido (I.F.T.-U.A.M.)
- César Gómez (I.F.T.-C.S.I.C.)
- Antonio González-Arroyo (I.F.T.-U.A.M.)
- Maria José Herrero (I.F.T.-U.A.M.)
- Luis Ibáñez (I.F.T.-U.A.M.)
- Jesús Moreno (I.F.T.-C.S.I.C.)
- Carlos Muñoz (I.F.T.-U.A.M.)
- Tomás Ortín (I.F.T.-C.S.I.C.)
- Mariano Quirós (I.F.T.-C.S.I.C.)
- Angel M. Uranga (I.F.T.-C.S.I.C.)

List of Invited Speakers:
(Updated October 17th 2002)

- A. Buras (Technische U. Munich)
- M. Cvetič (UPenn)
- P. Hernández (CERN)
- E. Lisi (INFN Bari)
- M. Plümacher (Oxford U.)
- A. Sagnotti (U. Roma 'Tor Vergata')
- P. Townsend (Cambridge U.)
- P. Weisz (Max Planck Inst. Munich)
- A. Delgado (Johns Hopkins U.)
- V. Di Clemente (U. Southampton)
- B. Fiol (Weizmann Inst.)
- D. G. Cerdeño (U. Halle)
- R. Hernández (U. Neuchatel)
- A. Ibarra (Oxford U.)
- D. Mateos (Perimeter Inst.)
- P. Meessen (SISSA)
- I. Navarro (U. Durham)
- C. Pena (DESY, Hamburg)
- S. Peñaranda (Max Planck Inst, Munich)
- C. Peña Garay (IAS, Princeton)
- R. Rabadán (CERN)
- M. Seco (U. Vigo)
- P. J. Silva (INFN, U. Milano)
- J. Simón (Weizmann Inst.)
- E. Torrente Luján (UAM)

Preliminary Schedule

Monday 16th

Chairpersons: B. Gavela (morning) & E. Álvarez (afternoon).

(10:00-11:00) A. Buras (*Technische U. Munich*)

Three Topics in Flavour Physics.

Welcome Coffee

(11:20-12:20) P. Hernández (*CERN*)

Exploring the chiral limit of QCD.

(12:20-12:40) C. Peña Garay (*IAS, Princeton*)

Learning on solar neutrinos with reactor antineutrinos.

(12:40-13:00) P. Meessen (*SISSA*)

Relations between Maximally supersymmetric solutions.

Lunch

(15:00-16:00) M. Plümacher (*Oxford U.)*

Leptogenesis.

Coffee break

(16:20-16:40) J. Simón (*Weizmann Inst.*)

Time dependence through lorentzian orbifolds

(16:40-17:00) A. Ibarra (*Oxford U.*)

Leptogenesis and low-energy CP violation.

(17:00-17:20) B. Fiol (*Weizmann Inst.*)

Holography and de Sitter space.

Tuesday 17th

Chairpersons: L. Ibáñez (morning) & A. González-Arroyo (afternoon).

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(10:00-11:00) E. Lisi (*INFN Bari*)

Recent results and open problems in neutrino oscillations.

Coffee Break

(11:20-12:20) M. Cvetic (*UPenn*)

M-theory and Special Holonomy Spaces.

(12:20-12:40) E. Torrente (*UAM*)

Neutrino oscillations from Kamland results.

(12:40-13:00) V. Di Clemente (*U. Southampton*)

Are we descended from the Higgs Boson?.

Lunch

(15:00-16:00) P. Weisz (*Max Planck, Munich*)

Quark Confinement and the Bosonic String.

Coffee break

(16:20-16:40) D. Mateos (*Perimeter Inst.*)

Defect Holography and the Masses of Hadrons

(16:40-17:00) M. Seco (*U. Vigo*)

Solving Puzzles in EW baryogenesis.

(17:00-17:20) A. Delgado (*Johns Hopkins U.*)

Brane-assisted Scherk-Schwarz supersymmetry breaking in orbifolds .

Wednesday 18th

Chairpersons: C. Gómez (morning) & C. Muñoz (afternoon).

(10:00-11:00) A. Sagnotti (*U. Roma*)

Free geometric equations for higher spins.

Coffee Break

(11:20-11:40) S. Peñaranda (*Max Planck Inst, Munich*)

The reconstruction of trilinear and quartic Higgs boson self-couplings.

(11:40-12:00) C. Pena (*DESY, Hamburg*)

Nonperturbative renormalisation of four-fermion operators in quenched QCD.

(12:00-12:20) R. Hernández (*U. Neuchatel*)

Metrics for wrapped branes.

(12:20-12:40) I. Navarro (*U. Durham*)

Undetermined background in 6D Gauss-Bonnet gravity.

Lunch '

(15:00-16:00) P. Townsend '(*Cambridge U.*)

Susy in motion.

Coffee break

(16:20-16:40) D. G. Cerdeño (*U. Halle*)

Charge and colour breaking constraints on the neutralino-nucleon cross section.

(16:40-17:00) R. Rabadán (*CERN*)

(Re)constructing dimensions.

(17:00-17:20) P.J. Silva (*U. Milano*) *Gauge theory on the Brane: a D0-brane tale.*