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

Madrid, 14, 15 and 16 December 1998

Organizing Comitee:

- Enrique Álvarez (I.F.T.-U.A.M.)
- Belén Gavela (I.F.T.-U.A.M.)
- César Gómez (I.F.T.-C.S.I.C.)
- Luis Ibáñez (I.F.T.-U.A.M.)
- Tomás Ortín (I.F.T.-C.S.I.C.)

List of Invited Speakers:

(Updated December 7th 1998)

- Ana Achúcarro (U. del País Vasco)
- Mar Bastero-Gil (U. Southampton)
- Marcela Carena (Fermilab)
- Andrea Donini (U.A.M.)
- Roberto Emparán (U. Durham)
- José Ramón Espinosa (C.E.R.N.)
- José Luis Fernández-Barbón (U. Utrecht)
- Margarita García-Pérez (U.A.M.)
- Concepción González-García (I.F.I.C., U. Valencia)
- Gary W. Gibbons (D.A.M.T.P., U. Cambridge)
- Bert Janssen (I.F.T./C.S.I.C.)

- Matthias Klein (U.A.M.)
- Esperanza López (T.U. Wien)
- Yolanda Lozano (U. Utrecht)
- Gloria Luzón (U. Oxford)
- Agustín Nieto (C.E.R.N.)
- Yaron Oz (C.E.R.N.)
- Nuria Rius, (U. Valencia)
- Christopher Sachrajda (U. Southampton)
- Alexei Smirnov (I.C.T.P.)
- Ángel M. Uranga (I.A.S., Princeton)
- Miguel Ángel Vázquez-Mozo (Amsterdam U.)

List of Participants:
(Updated December 10th)

- Natxo Alonso Alberca (I.F.T./U.A.M.)
- David García Cerdeño (U.A.M.)
- Beatriz Gato-Rivera (IMAFF-CSIC)
- Ernesto Lozano Tellechea (I.F.T./U.A.M.)
- Juan Manjarín Colón (U.A.M.)
- Patrick Meessen (I.F.T./U.A.M.)
- Olga Mena Requejo (U.A.M.)
- Raúl Rabadán (U.A.M.)
- Pedro Silva (U. Newcastle)

Schedule

(Updated December 9th 1998)

Monday 14th

Chairindividualss: C. Gómez (morning) & B. Gavela (afternoon).

(10:30-11:30) Yaron Oz (*C.E.R.N.*)

Aspects of Large N QCD Dynamics from String Theory.

Wellcome Coffee

(11:50-12:20) José Ramón Espinosa (*C.E.R.N.*)

Electroweak Baryogenesis with Cosmic Strings.

(12:25-12:55) José Luis Fernández-Barbón (*U. Utrecht*)

Black Holes, D-Branes and Hagedorn Behaviour.

(13:00-13:30) Gloria Luzón (*U. Oxford*)

Instantons in AdS spaces.

Lunch

(15:30-16:30) Alexei Smirnov (*I.C.T.P., Trieste*)

Reconstructing Neutrino Mass Spectrum.

Coffee break

(14:50-17:20) Miguel Ángel Vázquez-Mozo (*U. Amsterdam*)

Large-N Limit of Non-Supersymmetric Black Holes.

(17:25-18:25) Nuria Rius (*U. Valencia*)

Finite Temperature and Spontaneously Broken Symmetries.

Tuesday 15th

Chairpersons: E. Álvarez (morning) & T. Ortín (afternoon).

(10:00-11:00) Marcela Carena (*Fermilab*)

Prospects for Higgs Physics at the Tevatron Collider.

Coffee Break

(11:20-11:50) Ángel M. Uranga (*I.A.S., U. Princeton*)

Brane Boxes and Branes at Singularities.

(11:55-12:25) Agustín Nieto (*C.E.R.N.*)

Thermal Field Theory of the Bose-Einstein Condensate.

(12:30-13:00) Matthias Klein (*U.A.M.*)

Confining N=1 SUSY Gauge Theories from Seiberg Duality.

Lunch

(15:00-16:00) Concepción González-García (*I.F.I.C., U. Valencia*)

Solutions to the Atmospheric Neutrino Problem.

Coffee break

(16:20-16:50) Andrea Donini (*U.A.M.*)

B-Parameter of Electroweak Delta F=2 Operators in the SM and MSSM.

(16:55-17:25) Roberto Emparán (*U. Durham*)

Radiation From AdS_3 Black Holes (Without Strings).

(17:30-18:00) Mar Bastero-Gil (*U. Southampton*)

A Next-to-Minimal Model of Hybrid Inflation in Sugra Theories.

Wednesday 16th

Chairpersons: L. Ibáñez (morning) & T. Ortín (afternoon).

(10:00-11:00) Gary W. Gibbons (*D.A.M.T.P., U. Cambridge*)

Single-sided Domain Walls in M-theory.

Coffee Break

(11:20-12:20) Ana Achúcarro (*U. del País Vasco*)

Non-Topological String Networks.

(12:30-13:00) Yolanda Lozano (*U. Utrecht*)

NS-9-Branes and Non-Perturbative Orientifold Constructions.

Lunch

(15:00-16:00) Christopher Sachrajda (*U. Southampton*)

Renormalons, Power Corrections and Heavy Quarks.

Coffee break

(16:20-16:50) Esperanza López (*T.U., Wien*)

Branes at singularities.

(16:55-17:25) Margarita García-Pérez (*U.A.M.*)

Physical Scales and Topology on the Lattice.

(17:30-18:00) Bert Janssen (*U.A.M.*)

A String-Like Solution to Massive Type IIA Supergravity.

For more information (maps, train schedules etc.), consult our web pages

`http://gesalerico.ft.uam.es`

e-mail the organizers at

`workshop@leonidas.imaff.csic.es`

or phone

+34-1-397 8541, 8546 or 8557 (fax-answering machine)