III U.A.M. Christmas Workshop on Particle Physics

Madrid, 17-19 December 1997

Organizers:

- 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 Participants:

- Gabriel Amorós (I.F.I.C., U. de Valencia)
- Martin Beneke (C.E.R.N.)
- Eric Bergshoeff (U. of Groningen)
- Gustavo C. Branco (I.S.T. Lisbone)
- Álvaro de Rújula (C.E.R.N.)
- Andrea Donini (U.A.M.)
- José Luis Fernández-Barbón (C.E.R.N.)
- Emidio Gabrielli (U.A.M.)
- Juan García-Bellido (C.E.R.N.)
- Margarita García-Pérez (C.E.R.N.)
- Jaume Gomis (Rutgers U.)

- Pilar Hernández (C.E.R.N.)
- Karl Landsteiner (T.U. Wien)
- Esperanza López (T.U. Wien)
- David Lowe (Brown U.)
- Yolanda Lozano (Q.M.W. College, London U.)
- Juan M. Maldacena (Harvard U.)
- Jesús M. Moreno (I.E.M.-C.S.I.C.)
- Agustín Nieto (C.E.R.N.)
- Eliezer Rabinovici (Hebrew U., Jerusalem)
- Stefano Rigolin (U.A.M.)
- Graham G. Ross (Oxford U.)
- Esteban Roulet (U. de Valencia)
- Esther Ruiz-Morales (C.E.R.N.)
- Jorge G. Russo (Imperial College, London)
- Joaquín Sánchez-Guillén (U. de Santiago de Compostela)
- Paul K. Townsend (Cambridge U.)
- Ángel Uranga (I.A.S., Princeton)
- Miguel Ángel Vázquez-Mozo (U. del País Vasco)

Schedule

(Updated December 15th)

Wednesday 17th

Chairmans: E. Álvarez (morning) & C. Gómez (afternoon).

(9:25-10:05) Eric Bergshoeff (*U. of Groningen*) *New Results on the World-volume Theories of Branes.*

(10:10-10:40) José Luis Fernández-Barbón (*C.E.R.N.*) *M-Theory, QCD and the Theta Angle.*

Wellcome Coffee

(11:10-11:40) Gabriel Amorós (*I.F.I.C., U. de Valencia*) *Two-Loop Hybrid Renormalization of Local Dimension-4 Heavy-Light Operators.*

(11:45-12:15) Andrea Donini (*U.A.M.*) *N=1 Super-Yang-Mills Theory on the Lattice.*

Small break

(12:30-13:00) Joaquín Sánchez-Guillén (U. de Santiago de Compostela) *Generalization of Integrability to any Dimension.*

(13:05-13:35) Jaume Gomis (*Rutgers U.*) *Matrix Theory Compactification on K3.*

Lunch

(15:30-16:10) Juan M. Maldacena (*Harvard U.*) *Black Holes and Field Theories.*

(16:15-16:45) Miguel Ángel Vázquez-Mozo (*U. del País Vasco*) *Inhomogeneous String Cosmologies.*

Coffee break

(17:15-17:45) Jesús M. Moreno (*I.E.M.-C.S.I.C.*) *Bubbles in the MSSM.*

Thursday 18th

Chairmans: (morning) & T. Ortín (afternoon).

(11:00-11:40) Eliezer Rabinovici (*Hebrew U., Jerusalem*) *Duality in Supersymmetric Gauge Theories and Brane Dynamics.*

(11:45-12:15) Ángel Uranga (*I.A.S., Princeton*) *Mass Deformed N=4 Theories Via Brane Configurations.*

Small break

(12:30-13:00) Emidio Gabrielli (*U.A.M.*) *Low-Energy Signals for a Minimal Gauge-Mediated Model.*

(13:05-13:45) Graham G. Ross (Oxford U.) *String Unification.*

Lunch

(15:30-16:10) Jorge G. Russo (*Imperial College, London U.*) *Quantum Corrections in M Theory.*

(16:15-16:45) Yolanda Lozano (*Q.M.W. College, London U.*) *Massive Branes.*

Coffee break

(17:15-17:55) Martin Beneke (*C.E.R.N.*) *Heavy Quarks near Threshold: From Asymptotic Expansions to Effective Theories.*

(18:00-18:30) Esteban Roulet (*U. de Valencia*) *Leptogenesis.*

Friday 19th

Chairpersons: L. Ibáñez (morning) & B. Gavela (afternoon).

(9:15-9:55) Paul K. Townsend (*Cambridge U.*) *Energy Bounds for World-volume Branes.*

(10:00-10:30) Esperanza López (*T.U. Wien*) *New Curves from Branes.*

Coffee break

(11:00-11:40) Gustavo C. Branco (*I.S.T. Lisbone*) *CP Asymmetries and Physics Beyond the SM.*

(11:45-12:15) Agustín Nieto (*C.E.R.N.*) *Quantum Field Theory and the Bose-Einstein Condensation of Atoms.*

Small break

(12:30-13:00) Karl Landsteiner (*T.U. Wien*) *Branes, Ortientifolds and Curves.*

(13:05-13:35) David Lowe (*Brown U.*) $E_8 \times E_8$ *Small Instantons in Matrix Theory.*

Lunch

(15:30-16:00) Juan García-Bellido (*C.E.R.N.*) *Preheating in Hybrid Inflation.*

(16:05-16:35) Stefano Rigolin (*U.A.M.*) *Weak Dipole Moments of Heavy Quarks in the MSSM.*

Coffee break

(17:05-17:35) Pilar Hernández (*C.E.R.N.*) *On the Decoupling of Doublers in Lattice Chiral Gauge Theories.*

(17:40-18:25) Álvaro de Rújula (*C.E.R.N.*) *Title.*

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

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