

VI Mexican School on Gravitation and Mathematical Physics “Approaches to Quantum Gravity”

Playa del Carmen, Quintana Roo, Mexico, November 21-27, 2004

Preliminary Scientific Program:

Registration: Sunday 21st at the Hotel Iberostar Playa Paraiso 17:00-20:00; also early Monday morning (before 9:00 am).

Please note that lunch breaks are very long. We hope you enjoy the beach!

IMPORTANT NOTICE: Due to a last minute cancellation by Ashtekar caused by a personal problem the schedule has changed. Course I on “Quantum Geometry” will now be given by Corichi, Bojowald and Smolin.

- Monday

9:00 - 10:00 Course I, *Quantum Geometry* (1/3): Corichi
10:00 - 11:00 Course II, *Black Holes in String Theory* (1/3): Peet
11:00 - 11:30 Coffee
11:30 - 12:30 Course III, *De Sitter Vacua in String Theory and the String Landscape* (1/3): Kallosh
12:30 - 13:30 Course IV, *Selected Problems in Classical Gravity* (1/3): Chrusciel
13:30 - 17:00 Lunch
17:00 - 18:00 Plenary talk 1, *Topics on Quantum Field Theory*: Wald
18:00 - 19:00 Plenary talk 2, *Non-commutativity in Gravity, Topological Gravity and Cosmology*: Obregon
19:00 - 20:00 Plenary talk 3, *Cosmological Constants and Variations*: Barrow

- Tuesday

9:00 - 10:00 Course III *De Sitter Vacua in String Theory and the String Landscape* (2/3): Kallosh
10:00 - 11:00 Course I, *Quantum Geometry* (2/3): Bojowald
11:00 - 11:30 Coffee
11:30 - 12:30 Course V, *Quantum Physics with Time-Space Non-commutativity* (1/3): Balachandran
12:30 - 13:00 Short Talk 1, *Far-from-Extremal Black Holes from Branes and Antibranes*: Guijosa
13:00 - 13:30 Short Talk 2, *Spacetime Granularity and Lorentz Invariance*: Sudarsky
13:30 - 17:00 Lunch
17:00 - 20:00 Parallel talks

- Wednesday

9:00 - 10:00 Course V, *Quantum Physics with Time-Space Non-commutativity* (2/3): Balachandran
10:00 - 11:00 Course II, *Black Holes in String Theory* (2/3): Peet
11:00 - 11:30 Coffee
11:30 - 12:30 Course IV, *Selected Problems in Classical Gravity* (2/3): Chrusciel
12:30 - 13:00 Short talk 3, *Synchrotron Radiation in Lorentz-Violating Effective Electrodynamics*: Urrutia
13:00 - 13:30 Short talk 4, *Semi-classical Aspects and Phenomenology of Loop Quantum Gravity*: Morales
13:30 - 17:00 Lunch
17:00 - 20:00 Free afternoon

- Thursday

9:00 - 10:00 Course II, *Black Holes in String Theory* (3/3): Peet
10:00 - 11:00 Plenary Talk 4, *Black Holes and Quantum Gravity*: Corichi
11:00 - 11:30 Coffee
11:30 - 12:30 Course VI, *Loop Quantum Gravity and Spin-foams* (1/3): Rovelli
12:30 - 13:30 Course IV, *Selected Problems in Classical Gravity* (3/3): Chrusciel
13:30 - 17:00 Lunch
17:00 - 20:00 Parallel talks

- Friday

9:00 - 10:00 Course III, *De Sitter Vacua in String Theory and the String Landscape* (3/3): Kallosh
10:00 - 11:00 Course I, *Quantum Geometry* (3/3): Smolin
11:00 - 11:30 Coffee
11:30 - 12:30 Course VI, *Loop Quantum Gravity and Spin-foams* (2/3): Rovelli
12:30 - 13:30 Course V, *Quantum Physics with Time-Space Non-commutativity* (3/3): Balachandran
13:30 - 17:00 Lunch
17:00 - 18:00 Plenary talk 5, *Loop Quantum Cosmology*: Bojowald
18:00 - 18:30 Short talk 5, *Wrapped D-branes and confining gauge theories*: Caceres
18:30 - 20:00 Round table

- Saturday

9:00 - 10:00 Course VI, *Loop Quantum Gravity and Spin-foams* (3/3): Rovelli
10:00 - 11:00 Plenary talk 6, *Selected Topics on Spin Foams*: Perez
11:00 - 11:30 Coffee
11:30 - 12:30 Plenary talk 7, *Inflation and String Theory*: Linde
12:30 - 13:30 Plenary talk 8, *Loops and Strings*: Smolin