

Current Themes in High Energy Physics and Cosmology

Report of Contributions

Contribution ID: 0

Type: **not specified**

Holographic Linear Dilaton Gravity and the Emergence of Black Holes

Monday 17 August 2015 10:00 (1 hour)

Presenter: BANKS, Thomas

Contribution ID: 1

Type: **not specified**

Are Ultraviolet Poles Arbitrary in Quantum Gravity at Two Loops?

Monday 17 August 2015 11:30 (1 hour)

Presenter: DIXON, Lance

Contribution ID: 2

Type: **not specified**

Non-renormalization Theorems Without Supersymmetry

Monday 17 August 2015 14:00 (1 hour)

Presenter: CHEUNG, Clifford

Contribution ID: 3

Type: **not specified**

Mini-max Flavor Violation

Tuesday 18 August 2015 10:00 (1 hour)

Presenter: GRINSTEIN, Benjamin

Contribution ID: 4

Type: **not specified**

Properties of the Scattering Equations

Wednesday 19 August 2015 10:00 (1 hour)

Presenter: GODDARD, Peter

Contribution ID: 5

Type: **not specified**

Ambitwistor Strings and Loop Integrands

Thursday 20 August 2015 10:00 (1 hour)

Presenter: MASON, Lionel

Contribution ID: 6

Type: **not specified**

A New Approach to Bouncing Cosmology

Friday 21 August 2015 10:00 (1 hour)

Presenter: STEINHARDT, Paul

Contribution ID: 7

Type: **not specified**

TBA

Tuesday 18 August 2015 11:30 (1 hour)

Presenter: MUKHANOV, Viatcheslav

Contribution ID: 8

Type: **not specified**

Propagation of Entanglement and Causality

Wednesday 19 August 2015 11:30 (1 hour)

Presenter: LIU, Hong

Contribution ID: 9

Type: **not specified**

Thermofield Dynamics and Gravity

Thursday 20 August 2015 11:30 (1 hour)

I will discuss thermofield dynamics in terms of a path-integral using coherent states, and also in terms of a field theoretic formulation on a manifold $\mathcal{M} \times \tilde{\mathcal{M}}$ where the two components have opposite orientation. As an application, a formulation of gravitational dynamics for noncommutative geometry using thermofield dynamics, with a doubling the Hilbert space modeling the noncommutative space will be considered. For 2+1 dimensions, since \mathcal{M} and $\tilde{\mathcal{M}}$ have the opposite orientation, the commutative limit leads to the Einstein-Hilbert action as the difference of two Chern-Simons actions.

Presenter: NAIR, Parameswaran

Contribution ID: **10**

Type: **not specified**

Review of Dark Matter

Friday 21 August 2015 11:30 (1 hour)

Presenter: FREESE, Katherine

Contribution ID: **11**

Type: **not specified**

Twistors and the Superstring

Tuesday 18 August 2015 14:00 (1 hour)

Presenter: BERKOVITS, Nathan

Contribution ID: 12

Type: **not specified**

Looking for New Physics at the LHC

Wednesday 19 August 2015 14:00 (1 hour)

Presenter: SANZ, Veronica

Contribution ID: **13**

Type: **not specified**

TBA

Thursday 20 August 2015 14:00 (1 hour)

Presenter: ARKANI-HAMED, Nima

Contribution ID: 14

Type: **not specified**

The Great Collider in the Sky

Friday 21 August 2015 14:00 (1 hour)

Presenter: SARKAR, Subir

Contribution ID: 15

Type: **not specified**

Opening Remarks

Monday 17 August 2015 09:45 (10 minutes)

Presenter: FEIDENHANS'L, Robert Krarup

Contribution ID: **16**

Type: **not specified**

The Great Collider in the Sky

Presenter: SARKAR, Subir