

HORAIRE / *PROGRAM*

ATELIER

CORRESPONDANCE ADS/CFT, EXTENSION AUTOADJOINTE ET
LA RÉOLUTION DES SINGULARITÉS COSMOLOGIQUES

6 au 10 juillet 2015

WORKSHOP

*ADS/CFT, SELF-ADJOINT EXTENSION AND THE RESOLUTION OF
COSMOLOGICAL SINGULARITIES*

July 6–10, 2015

Conférences : salle 6254 (Pavillon André-Aisenstadt)

Pauses-café : salon Maurice-L'Abbé (salle 6245, Pavillon André-Aisenstadt)

Lectures: Room 6254 (Pavillon André-Aisenstadt)

Coffee Breaks: Salon Maurice-L'Abbé (Room 6245, Pavillon André-Aisenstadt)

Le lundi 6 juillet 2015 / *Monday, July 6, 2015*

08:30–09:15 Inscription (salle 5345) et café-croissants (salle 6245)
Registration (Room 5345) and Coffee & Croissants (Room 6245)

09:15–09:30 Orientation / *Orientation*

09:30–10:20 Daniel Kabat (Lehman College, CUNY)
“Bulk reconstruction in AdS/CFT”

10:20–10:40 Pause-café / *Coffee break* (Salle / Room 6245)

10:40–11:30 David Lowe (Brown University)
“Black Hole Complementarity”

11:30–14:30 Pause-déjeuner / *Lunch break*

14:30–15:20 Ian A. Morrison (McGill University)
“Boundary-to-bulk maps for AdS causal wedges and the Reeh-Schlieder property in holography”

15:20–15:40 Pause-café / *Coffee break* (Salle / Room 6245)

15:40–16:30 Alberto Enciso (Instituto de Ciencias Matemáticas)
“The holographic principle for the Einstein equations and asymptotically AdS spacetimes with prescribed conformal infinity”

Le mardi 7 juillet 2015 / Tuesday, July 7, 2015

08:30–09:00 Café croissants / *Coffee & Croissants* (Salle / Room 6245)

09:00–09:50 Walter Craig (McMaster University)

“Spherical means representation of the wave propagator in a FRW background metric”

09:50–10:30 Pause-café / *Coffee break* (Salle / Room 6245)

10:30–11:20 Spyros Alexakis (University of Toronto)

“Conformal anomalies, renormalized area, and reconstruction of bulk metrics from boundary data”

11:20–14:30 Pause-déjeuner / *Lunch break*

14:30–15:20 Sumit R. Das (University of Kentucky)

“Universality in quantum quenches in field theory and holography”

15:20–15:40 Pause-café / *Coffee break* (Salle / Room 6245)

15:40–16:30 Yifu Cai (McGill University)

“Fluctuations in a cosmology with a space-like singularity and their gauge theory dual description”

Le mercredi 8 juillet 2015 / Wednesday, July 8, 2015

08:30–09:00 Café croissants / *Coffee & Croissants* (Salle / Room 6245)

09:00–09:50 Paul McFadden (Imperial College London)
“Soft limits in holographic cosmology”

09:50–10:30 Pause-café / *Coffee break* (Salle / Room 6245)

10:30–11:20 Abhishek Pathak (Harvard University)
“Holographic RG flow”

11:20–14:30 Pause-déjeuner / *Lunch break*

14:30–15:20 Dionysios Anninos (Institute for Advanced Study)
À venir/TBA

15:20–15:40 Pause-café / *Coffee break* (Salle / Room 6245)

15:40–16:30 Misha Smolkin (University of California, Berkeley)
“The role of instantons in singularity resolution”

Le jeudi 9 juillet 2015 / Thursday, July 9, 2015

08:30–09:00 Café croissants / *Coffee & Croissants* (Salle / Room 6245)

09:00–09:50 Thomas Banks (UC Santa Cruz)
“Holographic space-time and a finite predictive model of inflation”

09:50–10:30 Pause-café / *Coffee break* (Salle / Room 6245)

10:30–11:20 Séance de discussion / *Discussion session*

11:20–14:30 Pause-déjeuner / *Lunch break*

14:30–15:20 Yi Wang (The Hong Kong University of Sci. & Techno.)
“Probing high energy particle physics via inflation”

15:20–15:40 Pause-café / *Coffee break* (Salle / Room 6245)

15:40–16:30 Stephon H Alexander (Dartmouth College)
“A cosmological alternative to fine tuning”

Le vendredi 10 juillet 2015 / Friday, July 10, 2015

08:30–09:00 Café croissants / *Coffee & Croissants* (Salle / Room 6245)

09:00–09:50 Maria J. Rodriguez (Harvard University)
“Jets, black holes and symmetries”

09:50–10:30 Pause-café / *Coffee break* (Salle / Room 6245)

10:30–10:55 Ian A. Morrison (McGill University)
“Constraints from higher-spin symmetry in de Sitter QFTs”

11:00–11:25 Alexander Maloney (McGill University)
“String universality & 3D quantum gravity”

11:25–14:30 Pause-déjeuner / *Lunch break*

14:30–15:20 Oscar Varela (Harvard University)
“The string origin and simple Chern-Simons duals of dyonic $N=8$ supergravity”

15:20–15:40 Pause-café / *Coffee break* (Salle / Room 6245)

15:40–16:30 Séance de discussion / *Discussion session*