

HORAIRE / *PROGRAM*

**ATELIER**

APPLICATIONS DE LA CORRESPONDANCE ADS/CFT À LA  
CHROMODYNAMIQUE QUANTIQUE ET EN PHYSIQUE DE LA  
MATIÈRE CONDENSÉE

19 au 23 octobre 2015

**WORKSHOP**

*APPLICATIONS OF ADS/CFT TO QCD AND CONDENSED MATTER  
PHYSICS*

*October 19–23, 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 19 octobre 2015 / *Monday, October 19, 2015*

08:30–09:00 Inscription (salle 5345) et café-croissants (salle 6245)  
*Registration (Room 5345) and Coffee & Croissants (Room 6245)*

**09:00–10:00 Shigeki Sugimoto** (Kyoto University)  
*“On the meson spectrum and the equation of state in holographic QCD”*

**10:00–11:00 Aldo Cotrone** (Università di Firenze)  
*“Holographic QCD at finite (imaginary) chemical potential”*

11:00–11:30 Pause-café / *Coffee break* (Salle / Room 6245)

**11:30–12:30 Alexander Maloney** (McGill University)  
*“Geometric microstates for the three dimensional black hole?”*

12:30–14:00 Pause-déjeuner / *Lunch break*

**14:00–15:00 William Witczak-Krempa** (Harvard University)  
*“Universal entanglement and dynamics in 2+1D CFTs”*

15:00–15:30 Pause-café / *Coffee break* (Salle / Room 6245)

**15:30–16:30 Christopher Herzog** (Stony Brook University)  
*“Tales from the edge: boundary terms and entanglement entropy”*

**16:30–17:30 Gino Knodel** (University of Michigan)  
*“Universal features of Lifshitz Green’s functions from holography”*

**Le mardi 20 octobre 2015 / Tuesday, October 20, 2015**

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

**09:00–10:00 Laurence Yaffe** (University of Washington)  
*“Numerical holography and heavy ion collisions”*

**10:00–11:00 Paul Chesler** (Harvard University)  
*“Holography & hydrodynamics in small systems”*

11:00–11:30 Pause-café / *Coffee break* (Salle / Room 6245)

**11:30–12:30 Gautam Mandal** (Tata Institute of Fundamental Research)  
*“Gregory-Laflamme as the confinement/deconfinement transition in holographic QCD”*

12:30–14:00 Pause-déjeuner / *Lunch break*

**14:00–15:00 Takeshi Morita** (Shizuoka University)  
*“Holographic QCD at finite temperature: Instantons and chiral symmetry restoration”*

15:00–15:30 Pause-café / *Coffee break* (Salle / Room 6245)

**15:30–16:30 Simon Caron-Huot** (Copenhagen University)

**16:30–17:30 Leopoldo Pando Zayas** (University of Michigan)  
*“Disordered holographic superconductors”*

**Le mercredi 21 octobre 2015 / Wednesday, October 21, 2015**

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

09:00–10:00 À venir / *TBA*

**10:00–11:00 Gim Seng Ng** (McGill University)  
*“Anomaly-induced thermodynamics in higher dimensional AdS/CFT”*

11:00–11:30 Pause-café / *Coffee break* (Salle / Room 6245)

**11:30–12:30 Subir Sachdev** (Harvard University)  
*“Bekenstein-Hawking entropy and strange metals”*

12:30–14:00 Pause-déjeuner / *Lunch break*

**14:00–15:00 Nora Brambilla** (Technische Universität München)  
*“Effective field theories for quarkonium at zero and finite temperature”*

15:00–15:30 Pause-café / *Coffee break* (Salle / Room 6245)

**15:30–16:30 Francesco Bigazzi** (INFN, Pisa)  
*“Theta dependence in holographic Yang Mills”*

18:30– Dîner au restaurant indien Le Taj  
*Conference Dinner at Le Taj Indian Restaurant*

**Le jeudi 22 octobre 2015 / Thursday, October 22, 2015**

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

**09:00–10:00 Henrique Boschi-Filho** (Universidade Federal do Rio de Janeiro)  
*“Hadrons in AdS/QCD and other holographic models”*

**10:00–11:00 Alex Buchel** (University of Waterloo)  
*“Equilibration rates in a strongly coupled nonconformal quark-gluon plasma”*

11:00–11:30 Pause-café / *Coffee break* (Salle / Room 6245)

**11:30–12:30 Shamit Kachru** (Stanford University)  
*“Which quantum field theories have emergent gravity?”*

12:30–14:00 Pause-déjeuner / *Lunch break*

**14:00–15:00 Aalok Misra** (Indian Institute of Technology Roorkee)  
*“Thermal QCD at finite gauge coupling from string/M theory involving six-/seven-folds of SU(3) – /G<sub>2</sub>-structure”*

15:00–15:30 Pause-café / *Coffee break* (Salle / Room 6245)

**15:30–16:30 Yanyan Bu** (Ben-Gurion University of the Negev)  
*“Linearly resumed hydrodynamics from gravity”*

**16:30–17:30 Lata Kharkwal Joshi** (Indian Institute of Technology Bombay)  
*“Backreaction effects of matter coupled higher derivative gravity on transport properties”*

**Le vendredi 23 octobre 2015 / *Friday, October 23, 2015***

09:30–10:00 Café croissants / *Coffee & Croissants* (Salle / *Room 6254*)

***Special Colloquiums***

**10:00–11:00 Shigeki Sugimoto** (Kyoto University)  
*“Holographic QCD (review)”*

11:00–11:30 Pause-café / *Coffee break*

**11:30–12:30 Nora Brambilla** (Technische Universität München)  
*“QCD, heavy quarkonium and effective field theories”*