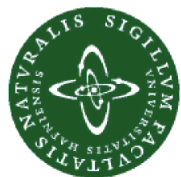


3rd ICM Theory & Computation Workshop

A. Evrard, M. Pessah, & M. Ruskowski



Niels Bohr Institute, Aug 11 - 14, 2014



The Niels Bohr
International Academy



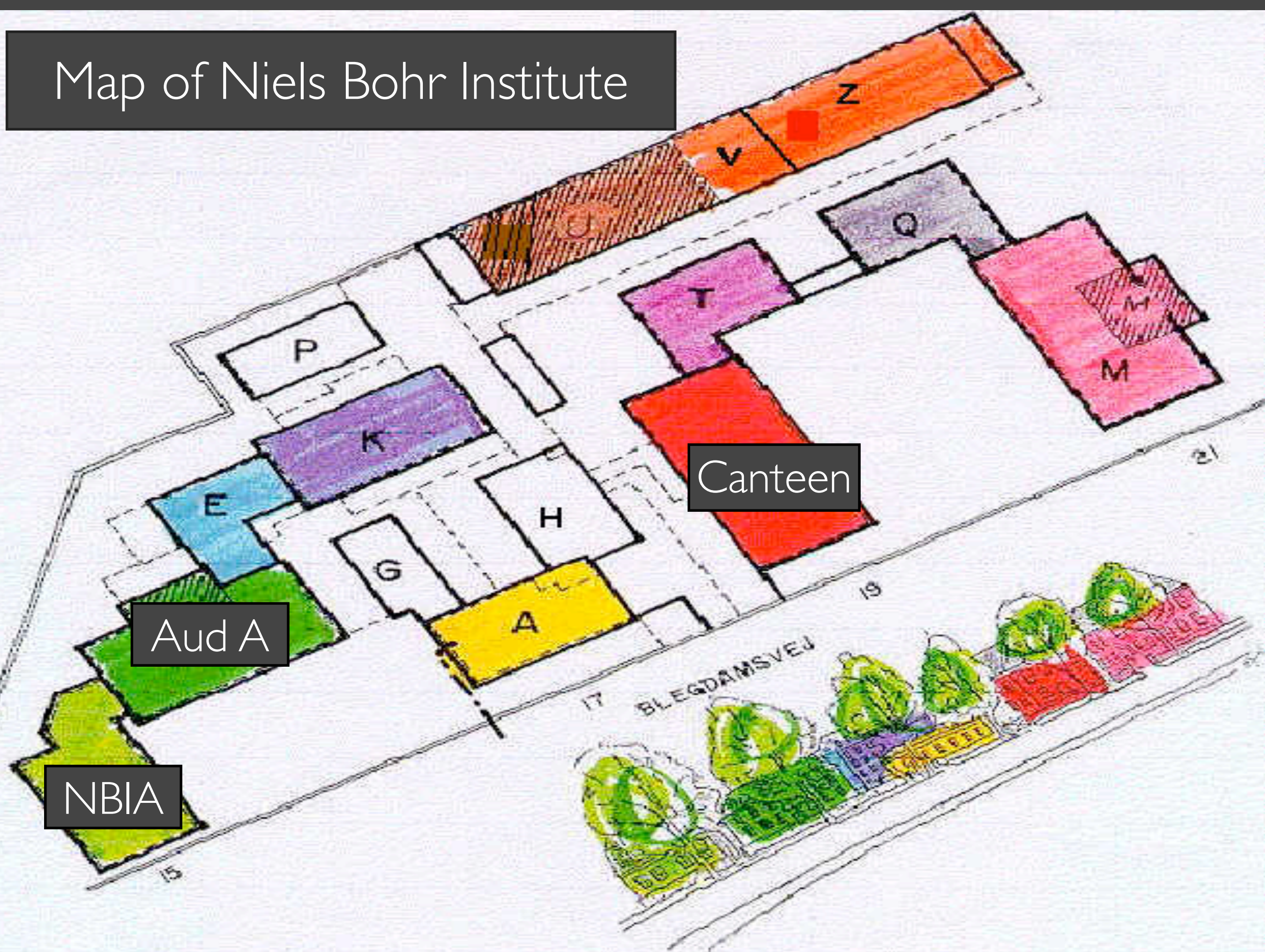
VILLUM FOUNDATION



PRACTICAL INFO

- Coffee break - Aud. C (registration)
- Lunch - NBI canteen (take bag & show badge)
- Restrooms downstairs & NBIA (down the hall)
- Espresso machine - NBIA lounge (keep walking)
- Quiet room for work (NBIA downstairs)

Map of Niels Bohr Institute



PRACTICAL INFO - Speakers

- Talk slots are 25 min. long TOTAL (20+5)
- Discussion - panel-type after each session
- Please upload talk to INDICO (see website)
- WiFi Networks
 - Euroam - use your user name
 - Conference - ask for password

PRACTICAL INFO - Moderators

3rd ICM Theory and Computation Workshop
from Monday, 11 August 2014 (09:00) to Thursday, 14 August 2014 (14:00)

: Sessions / : Talks : Breaks

	Monday, 11 August 2014	Tuesday, 12 August 2014	Wednesday, 13 August 2014	Thursday, 14 August 2014
AM	11:30 Registration (until 12:30) 12:30 --- Welcoming Lunch ---	09:00 Tuesday morning - Mateusz Ruszkowski (University of Michigan) (until 12:30) 09:00 The origin of cold gas in giant ellipticals and its role in fueling AGN feedback - Norbert Werner (Stanford University) 09:25 Raining onto black holes: chaotic cold accretion driving AGN feedback - Massimo Gaspari (Max Planck Institute for Astrophysics) 09:50 Modeling AGN Feedback in Cool-Core Galaxy Clusters - Yuan Li (Columbia University) 10:15 --- Coffee break --- 11:00 Thermal instability paradigm for cold gas in cluster cores: effects of thermal conduction, turbulence and AGN jets - Prateek Sharma (IISc Bangalore) 11:25 Spherical accretion and AGN feedback - Paul Nulsen (Harvard-Smithsonian Center for Astrophysics) 11:50 --- Discussion --- 12:30 --- Lunch ---	09:00 Wednesday morning - Daisuke Nagai (Yale University) (until 12:30) 09:00 Cosmic ray heating in cool core clusters - Christoph Frommer (HITS) 09:25 Gas density and velocity power spectra in galaxy clusters - Eugene Churazov (MPA) 09:50 The Generation, Evolution and Transport of Turbulence During Structure Formation - Tom Jones (U Minnesota) 10:15 --- Coffee break --- 11:00 Hydrodynamical Simulations of Non-thermal Pressure in Galaxy Clusters - Kaylea Nelson (Yale University) 11:25 Temperature Structure of the Intra-Cluster Medium from SPH and AMR Simulations - Elena Rasia (University of Michigan) 11:50 --- Discussion --- 12:30 --- Lunch ---	09:00 Thursday morning - Mark Voit (Michigan State University) (until 12:30) 09:00 Gas Accretion and Non-Equilibrium Phenomena in the Outskirts of Galaxy Clusters - Daisuke Nagai (Yale University) 09:25 Simulating galaxy populations within clusters - Brian O'Shea (Michigan State University) 09:50 Analytical model for non-thermal pressure in galaxy clusters - XUN SHI (Max Planck Institute for Astrophysics) 10:15 --- Coffee break --- 11:00 The Effects of Accretion History on the Cluster Temperature Profile and Cosmological Observables - Ian Parrish (Canadian Institute for Theoretical Astrophysics) 11:25 Cosmic rays in galaxy clusters and their non-thermal emission - Anders Pinzke (Dark Cosmology Centre, University of Copenhagen) 11:50 --- Discussion --- 12:30 --- Lunch ---
PM	13:45 Opening Remarks (until 14:00) 14:00 Monday afternoon - August Evrard (University of Michigan) (until 17:30) 14:00 Gas Flows in Galaxy Clusters - Brian McNamara (University of Waterloo) 14:25 Witnessing the ongoing growth of nearby clusters of galaxies - Aurora Simionescu (ISAS/JAXA) 14:50 New observational constraints on microphysical properties of the intracluster plasma - Maxim Markevitch (NASA/GSFC) 15:15 --- Coffee break --- 16:00 Magnetic field evolution in a weakly collisional high-beta ICM - Alexander Schekochihin (University of Oxford) 16:25 High-order Numerical Methods for Plasma Simulations on Large-scale High-Performance Computing Architectures - Dongwook Lee (The University of Chicago) 16:50 --- Discussion ---	13:45 Tuesday afternoon - Alexander Schekochihin (University of Oxford) (until 16:30) 13:45 Magnetohydrodynamics in a Weakly Collisional Intracluster Medium - James Stone (Princeton University) 14:10 Magnetic fields and the Helium content in the intracluster medium - Thomas Berlok (NBIA) 14:35 --- Coffee break --- 15:05 Fluid flow experiments in galaxy clusters: Using cluster galaxies and minor mergers as probes for transport coefficients of the ICM - Elke Roediger (Hamburger Sternwarte) 15:30 Evolution (or not) of Cool Cores - Mark Voit (Michigan State University) 15:55 --- Discussion --- 16:30 Conference Dinner (until 21:00) (Restaurant)	14:00 Wednesday afternoon - Paul Nulsen (Harvard-Smithsonian Center for Astrophysics) (until 17:05) 14:00 Damped and Driven Waves in Galaxy Clusters - Ellen Zweibel (U Wisconsin-Madison) 14:25 Shock Waves in Galaxy Clusters - Marcus Bruggen (University of Hamburg) 14:50 Spectral Composition of Cosmic Rays in Galaxy Clusters - Samuel Skillman (Stanford, SLAC) 15:15 --- Coffee break --- 16:00 Kinetic simulations of cosmic ray acceleration at shocks - Damiano Caprioli (Princeton University) 16:25 --- Discussion --- 17:05 Beer in the Park (until 18:05) (n/a)	

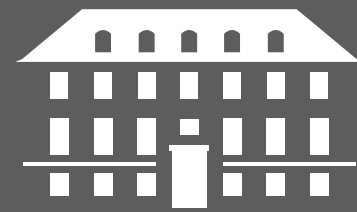
SOCIAL EVENTS

- Picture - Tuesday 10:30 - before coffee break
- Dinner at Louisiana - Tuesday 16:30 - 21:00
- Beer in Fælledparken - Wednesday 16:30
- Tour NBI - Wed. & Thurs. 13:30 - at reception



Niels Bohr Archive, Copenhagen - NBA.NBI.DK

Enjoy the workshop!



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