



The Abdus Salam
**International Centre
for Theoretical Physics**

Workshop & Conference on Geometrical Aspects of Quantum States in Condensed Matter

PARTICIPANTS' TALKS - SCHEDULE

MONDAY 1 JULY 16:15 - 17:35

Colin BENJAMIN

(National Institute of Science Education and Research, Bhubaneswar, India)

**How to detect a genuine quantum pump effect in
graphene?** (25 minutes)

Xi DONG (Stanford University)

Mathieu Moonshine in Calabi-Yau Threefolds
(15 minutes)

Uwe FISCHER (Seoul National University)

**Universality of the Berezinskii-Kosterlitz-Thouless type of
phase transition in a planar gas of dipoles**
(15 minutes)

Stefanos KOURTIS (Leibniz Institute for Solid State and Materials
Research)

**Topological and conventional ordering from correlations
in Chern bands**
(15 minutes)



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TUESDAY 2 JULY 16:15 - 17:35

Juan Mauricio MATERA

(Universidad Nacional de La Plata, Argentina)

Entanglement and area laws in weakly correlated states
(15 minutes)

Domenico MONACO

(SISSA, Trieste)

**Topological invariants of eigenvalue intersections and
decrease of Wannier functions in graphene** (15 minutes)

Jean-Noël FUCHS

(LPTMC, Université Pierre et Marie Curie, Paris)

Merging transition of Dirac fermions (25 minutes)

William Witczak-Krempa

(Perimeter Institute for Theoretical Physics, Waterloo, Canada)

**Holographic insights into quantum critical transport: from
branes to Bose-Hubbard** (15 minutes)

Tankut CAN

(University of Chicago)

(15 Minutes)



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PARTICIPANTS' TALKS - SCHEDULE

WEDNESDAY 3 JULY 15:00 - 16:00

Michal P. Heller

(Universiteit van Amsterdam)

New insights about hydrodynamics from holography (15 minutes)

Andrea Amoretti

(INFN, University of Genova)

3D dynamics of 4D topological BF Theory with boundary (15 minutes)

Alexander PROTOGENOV

(Russian Academy of Sciences, Nizhni Novgorod)

Topological phase states of the SU(3) QCD (25 minutes)

-----COFFEE BREAK-----



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WEDNESDAY 3 JULY 16:15 - 17:50

Dmitri V. KHVESHCHENKO

(University of North Carolina, Chapel Hill, USA)

Searching for non-Fermi liquids under holographic light

(25 minutes)

AI SHAPERRE

(University of Kentucky, Lexington, USA)

Time Crystals (25 minutes)

Sergey DICKMANN

(Institute for Solid State Physics of the Russian Academy of Sciences)

Metastable cyclotron spin-flip excitation in a $\nu=2$ quantum Hall system (25 minutes)

Quan-Hui LIU

(Hunan University, Changsha, P.R. China)

Geometric momentum for a particle constrained on a curved hypersurface

(15 minutes)