جامعـة نيويورك أبوظـبي
NYU ABU DHABI

CENTER FOR
QUANTUM &
TOPOLOGICAL
SYSTEMS

Porgram (Monday, Day 1)
M-theory and Mathematics: Classical and Quantum Aspects

08:55 - 09:00 am ● **Welcome remark by Hisham Sati**

09:00 - 09:45 am ● **Neil Lambert**
Non-Relativistic M2-Branes and AdS/CFT

10:00 - 10:45 am ● **Carlos Shahbazi**
The Differential Geometry and Topology of Four-Dimensional Universal Supergravity

11:00 – 11:45 am ● **Mario Garcia-Fernandez**
Gauge Theory for String Algebroids

12:00 – 01:30 pm ● **Lunch Break**

01:30 – 02:15 pm ● **Grigorios Giotopulos**
Towards Non-Perturbative Lagrangian Field Theory via the Topos of Smooth Sets

02:30 – 03:15 pm ● **Luigi Alfonsi**
Towards Non-Perturbative BV-Theory via Derived Geometry and the Puzzle of Quantisation

03:30 – 04:15 pm ● **Eric Sharpe**
Decomposition of 2D Pure Yang-Mills and the Gross-Taylor String Theory

07:00 – 09:00 pm ● **Dinner at Beirut Sur Mer**

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Porgram (Tuesday, Day 2)

M-theory and Mathematics: Classical and Quantum Aspects

09:00 - 09:45 am
Ruben Minasian
Constraining and Un-constraining Supergravities

10:00 - 10:45 am
Emmanuel Malek
Kaluza-Klein Spectrometry for String Theory Compactifications

11:00 – 11:45 am
Fei Han
Cubic Forms, Anomaly Cancellation and Modularity

12:00 – 01:15 pm
Lunch Break

01:15 – 02:00 pm
Meng-Chwan Tan
Topological-Holomorphic N=4 Gauge Theory: From Langlands Duality of Holomorphic Invariants to Mirror Symmetry of Quasi-Topological Strings

02:15 – 03:00 pm
Olaf Hohm
Double Copy, Double Field Theory & Homotopy Algebras

03:15 – 04:00 pm
Christian Saemann
Atiyah Algebroids for Higher and Groupoid Gauge Theories

04:15 - 07:15 pm
Visit to Qasr Al Watan

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Porgram (Wednesday, Day 3)
M-theory and Mathematics: Classical and Quantum Aspects

09:00 - 09:45 am — **Chris Hull**
Self-Dual p-Form Gauge Fields and the Topology of the Graviton

10:00 - 10:45 am — **Yang-Hui He**
The AI Mathematician

11:00 – 11:45 am — **Chris Blair**
Geometry and Dualities of Decoupling Limits in String Theory and M-Theory

12:00 – 01:15 pm — **Lunch Break**

01:15 – 02:00 pm — **Hisham Sati**
M-Theory and Hypothesis H

02:15 – 03:00 pm — **Urs Schreiber**
Introduction to Quantum Hypothesis H