جامعة نيويورك أبوظبي
NYU ABU DHABI

CENTER FOR
QUANTUM &
TOPOLOGICAL
SYSTEMS

Program (Monday, January 15, 2024)
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**

جامعـة نيويورك أبوظبي
NYU ABU DHABI

CENTER FOR
QUANTUM &
TOPOLOGICAL
SYSTEMS

Program (Tuesday, January 16, 2024)
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 **Emanuel 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**

Program (Wednesday, January 17, 2024)
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