The Condensed Matter Theory Center Presents as Part of the Janet Das Sarma Series

QUANTUM

May 17, 2021
10 AM - 6 PM ET

Immanuel Bloch

Ludwig-Maximilians University (LMU)

"Realizing and probing quantum matter using large scale quantum simulations"

Ignacio Cirac

Max Planck Institute of Quantum Optics

“Simulations with analog and digital quantum computers”

Lieven Vandersypen

Delft University

“Analog quantum simulating of Fermi-Hubbard physics using quantum dot arrays”

Andrew Childs

University of Maryland

“Efficient quantum algorithm for dissipative nonlinear differential equations”

Markus Greiner

Harvard University

Tentative Title: “ Simulating strongly correlated quantum materials using cold fermions in the laboratory”

Maissam Barkeshli

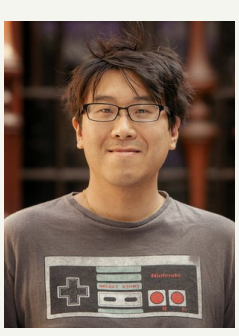
University of Maryland

“Measurement-induced topological entanglement transitions in random quantum circuits”

Edwin Barnes

Virginia Tech

“Quantum error mitigation at the level of hardware control: from spin echo to geometric space curves”



Garnet Chan

Caltech

"Quantum advantage and quantum chemistry"

Conference Schedule

All times in Eastern Standard

Immanuel Bloch

10:00 AM - 10:55 AM

"Realizing and probing quantum matter using large scale quantum simulations"

Ignacio Cirac

11:00 AM - 11:55 AM

"Simulations with analog and digital quantum computers"

Lieven Vandersypen

12:00 PM - 12:55 PM

"Analog quantum simulating of Fermi-Hubbard physics using quantum dot arrays"

Andrew Childs

1:00 PM - 1:55 PM

"Efficient quantum algorithm for dissipative nonlinear differential equations"

Markus Greiner

2:00 PM - 2:55 PM

Tentative Title: " Simulating strongly correlated quantum materials using cold fermions in the laboratory"

Maissam Barkeshli

3:00 PM - 3:55 PM

"Measurement-induced topological entanglement transitions in random quantum circuits"

Edwin Barnes

4:00 PM - 4:55 PM

"Quantum error mitigation at the level of hardware control: from spin echo to geometric space curves"

Garnet Chan

5:00 PM - 6:00 PM

"Quantum advantage and quantum chemistry"

FOR ZOOM DETAILS EMAIL MS. CAWTHORNE AT RCAWTHOR@UMD.EDU