

Program

2nd Advanced School on Holography and Quantum Information Topics

School of Particles and Accelerators

Institute for Research in Fundamental Sciences (IPM)

February 13-17, 2021

Saturday, February 13, 2021

8:50 am - 9:00 am	Welcome Remarks
9:00 am - 10:00 am	"Introduction to Quantum Information" Saleh Rahimi-Keshari
10:00 am - 11:00 pm	"Quantum Error Correction" Vahid Karimipour
11:00 pm - 12:00 pm	Coffee Break / Informal Conversation
12:00 pm - 1:00 pm	"Introduction to Quantum Information" Saleh Rahimi-Keshari
1:00 pm - 2:00 pm	Lunch Break / Informal Conversation
2:00 pm - 3:00 pm	"Entanglement Entropy in Free Fermionic Systems" Mohammad Ali Rajabpour
3:00 pm - 4:00 pm	"Information Paradox" Ahmad Ghodsi
4:00 pm - 5:00 pm	"Information Paradox" Ahmad Ghodsi
5:00 pm - 6:00 pm	Discussion Session

Sunday, February 14, 2021

9:00 am - 10:00 am	"Islands and Replica Wormholes" Amirhossein Tajdini
10:00 am - 11:00 pm	"Quantum Error Correction" Vahid Karimipour
11:00 pm - 12:00 pm	Coffee Break / Informal Conversation
12:00 pm - 1:00 pm	"Entanglement Hamiltonian of Interacting systems: Local Temperature Approximation and Beyond" Abolhassan Vaezi
1:00 pm - 2:00 pm	Lunch Break / Informal Conversation
2:00 pm - 3:00 pm	"Entanglement Entropy in Free Fermionic Systems" Mohammad Ali Rajabpour
3:00 pm - 4:00 pm	Discussion Session

Monday, February 15, 2021

9:00 am - 10:00 am	"Islands and Replica Wormholes" Amirhossein Tajdini
10:00 am - 11:00 pm	"Entanglement Wedge Cross-Section" Mohammad Hassan Vahidinia
11:00 pm - 12:00 pm	Coffee Break / Informal Conversation
12:00 pm - 1:00 pm	"Introduction to Quantum Information" Saleh Rahimi-Keshari
1:00 pm - 2:00 pm	Lunch Break / Informal Conversation
2:00 pm - 3:00 pm	"Entanglement Entropy in Quantum Field Theories" Ali Mollabashi
3:00 pm - 4:00 pm	Discussion Session

Tuesday, February 16, 2021

9:00 am - 10:00 am	"Holographic Quantum Error Correction" Behrad Taghavi
10:00 am - 11:00 am	"Entanglement Wedge Cross-Section" Mohammad Reza Mohammadi Mozaffar
11:00 am - 12:00 pm	Coffee Break / Informal Conversation
12:00 pm - 1:00 pm	"Holographic Quantum Error Correction" Behrad Taghavi
1:00 pm - 2:00 pm	Lunch Break / Informal Conversation
2:00 pm - 3:00 pm	"Entanglement Entropy in Quantum Field Theories" Ali Mollabashi
3:00 pm - 4:00 pm	"Petz map, error correction, and reconstruction" Nima Lashkari
4:00 pm - 5:00 pm	Discussion Session

Wednesday, February 17, 2021

9:00 am - 10:00 am	"Holographic Quantum Error Correction" Behrad Taghavi
10:00 am - 11:00 pm	"Flat space holography in 2D Gravity Theory" Hamid Reza Afshar
11:00 pm - 12:00 pm	Coffee Break / Informal Conversation
12:00 pm - 13:00 pm	"Entanglement Entropy in Quantum Field Theories" Ali Mollabashi
2:00 pm - 3:00 pm	Discussion Session
3:00 pm - 4:00 pm	"Petz map, error correction, and reconstruction" Nima Lashkari
4:00 pm - 5:00 pm	Discussion Session