



TOHOKU FORUM for CREATIVITY

Tohoku Forum for Creativity Thematic Program 2015

Fundamental Problems in Quantum Physics: Strings, Black Holes and Quantum Information

International Workshop on Strings, Black Holes and Quantum Information

Tensor Network and Holography (Review)

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Schedule:

Monday, September 7, 14:00-15:00

Place:

TOKYO ELECTRON House of Creativity 3F, Lecture Theater
Katahira Campus, Tohoku University

Abstract:

Recently studies of quantum entanglement and its holographic analysis have revealed strong connections between quantum entanglement and spacetime geometry. Especially it has been pointed out that emergent spacetimes in holography can be understood as a network of quantum entanglement, so called tensor networks. In this talk I would like to review recent developments in this direction.