

Entropy in dS/CFT and Time-like Entanglement Entropy

Friday 21 April 2023 17:00 (30 minutes)

In this talk, we consider the holographic relation for quantum entanglement in dS/CFT as an extension of Ryu-Takayanagi formula in AdS/CFT. We argue that the holographic formula holds for pseudo entropy, which is a complex-valued generalization of entanglement entropy. Also time-like entanglement entropy is introduced in AdS/CFT as a counterpart of pseudo entropy in dS/CFT. We elaborate behaviors of time-like entanglement entropy in various examples.

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