

The Hebrew University of Jerusalem , Joint High Energy Physics Seminar

Mr. Uri Kol

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The White Dove Conference Hall at Nave-Shalom (Wahat al-Salam)

"Confinement and phase transition in the entanglement entropy"

We study the holographic entanglement entropy in various confining theories, based on the proposal of Klebanov, Kutasov and Murugan.

This study suggests a possible relation between the entanglement entropy and the Wilson loop, which is the standard order parameter for confinement.

However, we find that the entanglement entropy also probes UV properties like (non)locality, which the Wilson loop is not sensitive to.

Additional details of the upcoming joint High Energy Physics' seminars can be found on the following link - [Joint High Energy Physics Seminars](#)