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Università di Cagliari  
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# HIGH ENERGY PHYSICS COLLOQUIA

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## ENTANGLEMENT NEGATIVITY

### Abstract

Research in black hole physics is incomplete without understanding black hole entropy. One of the most intense areas of research, nowadays, is to explore the connection between entanglement entropy and black hole entropy. It turns out that there are various measures for entanglement apart from the widely used entanglement entropy. In this seminar, I will talk about one such measure called entanglement negativity which serves as a measure for mixed state entanglement. I will talk about it in various setups like quantum information, conformal field theory, AdS/CFT to showcase the connection between entanglement negativity and thermal correlations for a black hole.

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