### Purification Complexity of Gaussian States

arxiv:181x.xxxxx, work in progress with Elena Cáceres, Shira Chapman, Juan Pablo Hernandez, Rob Myers, and Shan-Ming Ruan

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# The AdS/CFT correspondence

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The holgraphic complexity conjecture

## Complexity in field theory?

### Subregion complexity

### Purification complexity

#### Purification complexity in field theory

#### Results