



# 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**

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### Anomalies and Entanglement Entropy

Tatsuma Nishioka  
(Tokyo U.)

Schedule:

Thursday, September 10, 15:30-16:30

Place:

TOKYO ELECTRON House of Creativity 3F, Lecture Theater

Katahira Campus, Tohoku University

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Abstract:

We study entanglement and Renyi entropy in the presence of gauge and gravitational anomalies in even dimensions. We find that the mixed and gravitational anomalies manifest themselves in the entropies under boosts transformation.