



Contribution ID: 453

Type: **Talk in the parallel session**

## What does zero modes tell us about entanglement ?

*Tuesday, July 6, 2021 10:10 AM (20 minutes)*

It has been known that the zero modes can contribute towards divergence in the entanglement entropy and the nature of the divergent term

can be either  $\log$  or  $\log(\log)$ . However, a clear understanding of what leads to these two different forms of zero mode divergence is still lacking.

So, in order to throw some light along this direction, I will talk about how these two different divergent behaviours can be seen as a signature of a crossover in the zero mode limit for the ground state entanglement.

**Primary author:** JAIN, PARUL (INDIAN INSTITUTE OF TECHNOLOGY-BOMBAY, INDIA)

**Co-authors:** CHANDRAN, S. Mahesh (IIT Bombay); Prof. SHANKARANARAYANAN, S (IIT Bombay)

**Presenter:** JAIN, PARUL (INDIAN INSTITUTE OF TECHNOLOGY-BOMBAY, INDIA)

**Session Classification:** Conformal Dilaton Gravity and Related Issues

**Track Classification:** Alternative Theories: Conformal Dilaton Gravity and Related Issues