What does zero modes tell us about entanglement?

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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.

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