

The Quantum Space-Time Seminar

Department of Theoretical Physics

Universality of the microcanonical entropy at large spin in non-rational 2D CFTs

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The zoom link will be sent separately.

We consider the rigorous consequences of modular invariance for two-dimensional unitary non-rational CFTs with c >1. Simple estimates for the torus partition function can lead to remarkably strong results. In particular, we show that the spectral density of spin J operators must grow like $\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{$

This will be based on arXiv 2505.02897 [hep-th] with Jiaxin Qiao and Balt C van Rees.