

Seminario

Departamento de Física Teórica

“Entanglement Negativity in Minimal Conformal Field Theories”

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Abstract:

In this seminar, we will reconsider the entanglement in a tripartite one-dimensional quantum system at the critical point. We will in particular analyze the reduced density matrix and its partial transpose, from which one can respectively calculate the entanglement entropy and the negativity. We will first review how these quantities can be studied by exploiting the conformal symmetry of the critical point. Then we will move to present the main results of the seminar: we will obtain analytical expressions for the moments of the reduced density matrix and its partial transpose in terms of conformal blocks. Finally, we will apply these results to minimal conformal field theories such as the Tricritical Ising model.

Fecha: Jueves 23 de septiembre de 2021

Hora: 12:00

Lugar: por confirmar, Aula 6. Edificio A. Facultad de Ciencias