



Universidad de Valladolid



Entanglement Content of Localized Excitations: Symmetry Resolution

Prof. Olalla Castro Alvaredo

Department of Mathematics, City, University of London

Abstract: In this talk I will introduce some basic ideas about entanglement measures in many-body quantum systems and I will present one of the leading approaches to computing such measures in 1D QFT. This approach is based on relating entanglement measures to correlations functions of a special class of fields called branch point twist fields. Once this connection has been made, the problem of computing entanglement measures is reduced to computing correlation functions. I will explain how these functions become especially simple for certain types of excited states of QFT and how this simplicity allows us to compute many different measures very explicitly, including a measure that has attracted a lot of interest recently: the symmetry resolved entanglement entropy.



12:30

April 20, 2023

Sala de Grados I, Fac. Ciencias



Financiado por
la Unión Europea
NextGenerationEU



MINISTERIO
DE CIENCIA
E INNOVACIÓN

TR Plan de Recuperación,
Transformación
y Resiliencia



NOS
IMPULSA


Junta de
Castilla y León