DANISH QUANTUM FIELD THEORY MEETING 2025

August 13 - 14
University of Southern Denmark (Odense)

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Four-Fermion Deformations on Line Defects in QED_4 with Yukawas

Thursday 14 August 2025 10:15 (30 minutes)

In this talk we discuss recent developments in Defect Conformal Field Theory (DCFT). Focusing on specific examples in gauge theories, we study how the insertion of a Wilson line (representing an infinitely massive charged source) introduces relevant operators that can trigger a renormalisation group flow on the defect. In particular, we examine how quartic (four-fermion) deformations on the line change the fixed point structure of the theory.

Presenter: MUCO, Giulia