Contribution ID: **10** Type: **not specified**

Line defects in CFTs: RG flows, cusps, and applications

Monday, 10 June 2024 10:00 (1 hour)

Line defects describe one-dimensional probes of a quantum field theory. Physically interesting examples can be found in different systems, ranging from magnets to gauge theories. In this talk, I will discuss some general properties of line defects, including the monotonicity of the defect renormalization group flow and the structure of the cusp anomalous dimension. I will illustrate the general results by discussing the magnetic line defect in the O(N) CFT. If time permits I will mention additional examples.

Primary author: CUOMO, Gabriel (New York U., CCPP and Princeton U.)

Presenter: CUOMO, Gabriel (New York U., CCPP and Princeton U.)