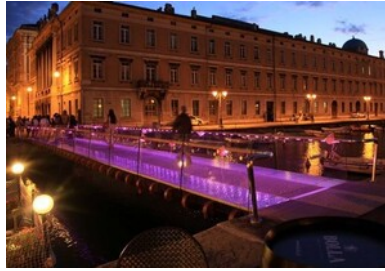


Meeting PRIN "String Theory as a bridge between Gauge Theories and Quantum Gravity"



Contribution ID: 6

Type: **not specified**

Analytic bootstrap for magnetic impurities

Friday, 23 June 2023 11:00 (45 minutes)

We will discuss two classes of line defects in the $O(N)$ critical model at the Wilson-Fisher fixed point. These extended excitations are relevant for condensed matter systems, such as doped quantum antiferromagnets. After reviewing some state-of-the-art analytic bootstrap techniques, we will apply them to compute the correlator of two bulk excitations at first order in the epsilon expansion. From this result we are able to extract an infinite set of defect CFT data.

Presenter: BIANCHI, Lorenzo (Istituto Nazionale di Fisica Nucleare)