



Contribution ID: 40

Type: **not specified**

The analytic structure of the large charge expansion

Monday 4 July 2022 15:30 (30 minutes)

In this talk, I will focus on two different methods that allow us to go beyond standard perturbation theory: the large charge expansion and resurgence. In particular, I will talk about the scaling dimension associated to charged operators in the $O(N)$ model near $d=4$ and $d=3$ and monopoles operators in QED3. I will present their analytic structure for large and small values of the charge and discuss the non-perturbative corrections to these objects using resurgence techniques.

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