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Localization and protected subsectors

Wednesday 22 September 2021 17:45 (15 minutes)

In general it is extremely difficult to obtain exact non-perturbative information about the operator product expansion (OPE) of a given CFT. In this quest protected sectors play an incredibly important role as in some cases they allow us to obtain the full answer for a subset of the operators in the theory. Important examples of this phenomenon occur in 4d $\mathcal{N} = 2$ and 6d $\mathcal{N} = (2,0)$ SCFT in which the correlation functions for a subset of operators are governed by a chiral algebra. In this talk I will focus on the 6d case and show how this chiral algebra can be obtained through localization. This approach allows us to extend our computations to CFTs in different backgrounds beyond flat space.

Do you wish to attend the workshop on-site?

no

Summary

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