



Contribution ID: 64

Type: **Poster**

Bootstrapping Perturbative and Non-perturbative Defect Correlators

The symmetries of a conformal system are sometimes enough to determine correlators without knowing the microscopic details of a theory. The analytic conformal bootstrap provides a consistent roadmap for this approach. This poster will go through this process and apply it to the case of defect correlators in holographic theories. In the case of the $1/2$ BPS-Wilson-line defect theory, the displacement four-point correlator is bootstrapped to the third order in a strong coupling expansion, and the double-scaling limit of this correlator is computed at all loops. However, these results are only possible thanks to the input of localisation results for this supersymmetric theory. For theories with fewer or broken supersymmetries, could Lattice computations provide an alternative physical input to the conformal bootstrap process?

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