

Extremal Correlators and OPE coefficients in Argyres-Douglas Theories

Tuesday, 25 June 2024 14:45 (15 minutes)

I will discuss the computation of correlators and observable quantities, in particular OPE coefficients, in Argyres-Douglas theories, that are 4-dimensional $N = 2$ superconformal field theories, intrinsically strongly coupled and without a Lagrangian description. I will recall some results for extremal correlators and OPE coefficients derived through localization on the 4-sphere, showing their almost compatibility with the conformal bootstrap method. Then I will pass to discuss the large R-charge limit for the localization results, in order to compare them with the ones obtained through the EFT technique, and in this scenario I will present some new coefficients coming inside the perturbative expansion, showing also consistency with what already known in literature. Finally, I will show some results about the goodness of a particular ansatz that produces a match with the results from the EFT method much better.

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Session Classification: Parallel session