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Computing OPE coefficients for strongly coupled SCFTs

Thursday 7 July 2022 09:30 (1 hour)

There are special classes of $N=2$ superconformal field theories in four dimensions, such as those of the “Argyres-Douglas” type, that feature an intrinsically strong dynamics. Due to the lack of a Lagrangian description, determining their properties quantitatively is a challenge. In this talk, I will present a general formula, which, inspired by the techniques of localization in gauge theory, computes the OPE coefficients between the Coulomb-Branch operators of such SCFTs. The formula only depends on data of the theory that can all be extracted from its classical Seiberg-Witten geometry, and it gives results in surprising agreement with the bootstrap bounds.

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