Contribution ID: **14** Type: **not specified**

An explicit example of exact results for a 4d N=2 SCFT: a Z_2 orbifold of N=4 SYM

Friday, 15 November 2024 17:15 (45 minutes)

We consider the 4d N=2 SCFT obtained by a Z_2 orbifold of N=4 SYM. By exploiting supersymmetric localization, we determine exact expressions for a broad set of observables, valid at any value of the 't Hooft coupling in the planar limit of the theory. These observables include two-point and three-point correlation functions between chiral and anti-chiral operators, correlators among Wilson loops and integrated correlators. Using both analytical and numerical techniques we derive the strong coupling limit of these quantities. Where possible, we compare our findings with holographic predictions via the AdS/CFT correspondence.

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Session Classification: Torino