

## Integrated correlators in a $\mathcal{N}=2$ SYM theory with fundamental flavors

*Tuesday, 18 February 2025 09:45 (45 minutes)*

I will discuss recent developments in the study of integrated 4-point correlators of primary operators in a four-dimensional  $\mathcal{N}=2$  superconformal field theory with  $SU(N)$  gauge group and matter in the fundamental and anti-symmetric representations. Exploiting supersymmetric localization, it is possible to map the computation of these correlators to an interacting matrix model and obtain expressions that are valid for any value of the 't Hooft coupling in the large- $N$  limit of the theory. In particular, I will focus on the strong-coupling regime, showing how to extract analytically the strong-coupling expansion of the integrated correlators from these exact expressions.

**Presenter:** VALLARINO, Paolo (Università di Torino)