## Algebra and Quantum Geometry of BPS Quivers



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## **Membranes and Maps**

Thursday 23 January 2025 16:30 (30 minutes)

In joint work with Andrea Brini, we proposed a definition of the refined topological string on a Calabi-Yau threefold X with a torus action in terms of the equivariant Gromov-Witten theory of the fivefold X x C<sup>2</sup>. In my talk, I will outline the construction, mention some of its features, and especially discuss an anticipated equivariant generalisation of Gopakumar-Vafa invariants. This expectation based on a conjectural relation to the M2-brane index of the fivefold, which we expect to hold for arbitrary CY5 with a torus action. I will present evidence for for the conjecture in the context of local curves.

Presenter: SCHUELER, Yannik