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Topological Vertex/anti-Vertex and Supergroup Gauge Theory

Wednesday, 16 December 2020 14:40 (20 minutes)

We propose a new vertex formalism, called anti-refined topological vertex (anti-vertex for short), to compute the generalized topological string amplitude, which gives rise to the supergroup gauge theory partition function. We show the one-to-many correspondence between the gauge theory and the Calabi–Yau geometry, which is peculiar to the supergroup theory, and the relation between the ordinary vertex formalism and the vertex/anti-vertex formalism through the analytic continuation.

Presenter: Dr SUGIMOTO, Yuji (U. of Sci. and Tech. of China)

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