

Counting Lagrangian A-branes with networks

The framework of spectral networks was introduced in physics as a way to compute BPS states of 4d $N=2$ gauge theories. In this talk I will review a generalization, known as exponential networks, which produces enumerative invariants associated to special Lagrangians in certain Calabi-Yau threefolds. Applications include the computation of the exact spectrum for the mirror of the local Hirzebruch surface. I will also sketch a new derivation of this framework, which elucidates the geometric meaning of the invariants in terms of elementary data of A-branes.

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