

Stanford Algebraic Geometry — Seminar —

TOPOLOGICAL PARTITION FUNCTIONS OF CERTAIN LOCAL CALABI-YAU VARIETIES

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Abstract

To a given threefold M , string theory associates its topological partition function, a finite dimensional approximation of a complicated path integral on M . This function is exactly computable for local Calabi-Yau geometries, and has different geometrically meaningful series expansions in different parameter regions. I will discuss a conjectural interpretation of this function in a hitherto uncharted region of parameter space for orbifold geometries.

Friday, April 7

3:15 p.m.

Room 383-N

<http://math.stanford.edu/~vakil/s0506/>