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String Theory in Greater Paris

Rencontres Théoriciennes

“Supergravité, théorie des cordes et théorie M”

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Nicolo Piazzalunga

Rutgers

4G Networks

I introduce the equivariant K-theoretic Donaldson-Thomas theory of toric Calabi-Yau fourfolds, and construct its four-valent vertex with generic plane partition asymptotics. String-theoretically, this is the count of BPS states of a system of D0-D2-D4-D6-D8-branes in the presence of large Neveu-Schwarz B-field. Based on 2306.12995, 2306.12405 and ongoing work.

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