



Contribution ID: 11

Type: **not specified**

## Studying the Borel plane of one-parameter Calabi-Yau models

*Thursday 16 January 2025 11:00 (1 hour)*

The topological string amplitude on hypergeometric Calabi-Yau threefolds is known to sufficiently high genus to permit a resurgence analysis. In this talk, based on joint work with Simon Douaud, we study the position of Borel singularities and the associated Stokes constants for these geometries. We find in particular that in models which exhibit massless D-branes at a singular point, the central charge of the D-brane close to the singular point coincides with the location of the leading Borel singularity, and the large radius generalized Donaldson-Thomas invariant associated to the charge of the D-brane, in as far as its value is known, coincides with the Stokes constant associated to the Borel singularity.

**Presenter:** KASHANI-POOR, Amir