Contribution ID: **46** Type: **not specified**

Modular transformation of c=1 toric conformal block from isomonodromic deformations

Monday, 23 September 2024 17:35 (25 minutes)

We will see how isomonodromic tau functions for a torus with one puncture can be expressed in term of c=1 conformal blocks (or \mathcal{N}=2* gauge theory partition functions). Then we will study monodromy dependence of these tau functions, find their behavior under the modular transformation \tau\to-1/\tau, and then use this knowledge to find an explicit formula for the fusion kernel for c=1 conformal block. The talk will be based on a joint work with Fabrizio Del Monte and Harini Desiraju.

Presenter: GAVRYLENKO, Pavlo