

WOLFGANG-PAULI-CENTRE

A COMPETENCE FIELD OF PIER

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Skein module valued open Gromov-Witten invariants and large N duality

Thursday, 8 November 2018 14:00 (1 hour)

From the perspective of topological string, holomorphic curves in a Calabi-Yau 3-fold ending on a Lagrangian deforms the Chern-Simons theory on the Lagrangian. Mathematically this can be interpreted as open Gromov-Witten invariants with values in the skein module of the Lagrangian. We discuss this definition and show how it combined with a specific deformation of the complex structure known as stretching gives a rather direct proof of large N duality for knots in the three sphere.

Presenter: ECKHOLM, Tobias