Prof. Dr. Rahul Pandharipande (ETH Zürich)

Curve counting on K3 surfaces and modular forms.

Abstract:

Natural generating series of curve counts on K3 surfaces are often modular forms. I will discuss results old and new related to the Yau-Zaslow and Katz-Klemm-Vafa conjectures governing special curve counts on K3 surfaces as well as general curve counting results obtained in joint work with Maulik and Thomas.