

Title: On the log-local principle for (refined) Gromov-Witten theory

Abstract: An appealing recent result of van Garrel-Graber-Ruddat asserts that the genus zero log Gromov-Witten invariants of a smooth complex projective variety X relative to a smooth divisor D coincide up to a factor with the genus zero local Gromov-Witten invariants of the total space of $\mathcal{O}_X(-D)$. In this talk I discuss generalisations of this correspondence to the case when X or D aren't smooth, as well as a refined correspondence for the all-genus theory when (X, D) is a log Calabi-Yau surface with maximal boundary. This is a joint work with P. Bousseau (ETH) and M. van Garrel (Warwick).