

Title: Solving refined BPS invariants with blowup equations

Abstract: We introduce a nouveau method of computing refined BPS invariants of noncompact Calabi-Yau threefolds, by using a generalisation of G\"ottsche-Nakajima-Yoshioka's blowup equations. We demonstrate the power of the new method by solving BPS invariants of noncompact elliptic Calabi-Yaus associated to rank one 6d (0,1) SCFTs. We give compact expressions of elliptic genera of 6d SCFTs which encode the BPS invariants.