Flops and S-duality conjecture 戸田 幸伸 (IPMU)

I explain my recent work on flop transformation formula of Donaldson-Thomas invariants counting two dimensional torsion sheaves on Calabi-Yau 3-folds. As an application, I show that the generating series of Euler characteristics of Hilbert schemes of points on A_n type surface singularities is a modular form.