

## D-equivalence conjecture for varieties of $K3^{[n]}$ -type

*Tuesday, March 4, 2025 2:00 PM (1 hour)*

The D-equivalence conjecture of Bondal and Orlov predicts that birational Calabi-Yau varieties have equivalent derived categories of coherent sheaves. I will explain how to prove this conjecture for hyperkahler varieties of  $K3^{[n]}$  type (i.e. those that are deformation equivalent to Hilbert schemes of K3 surfaces). This is joint work with Junliang Shen, Qizheng Yin, and Ruxuan Zhang.

**Presenter:** MAULIK, Davesh (MIT)