

Title: On the Chow ring of holomorphic symplectic manifolds

Abstract: I will propose a series of basic conjectural identities in the Chow rings of moduli spaces of stable sheaves over K3 surfaces, and will discuss evidence for them. The emerging structure naturally generalizes in higher dimensions a set of key properties of cycles on a K3 surface. The talk is based on joint work with Ignacio Barros, Laure Flapan, and Rob Silversmith.