Finiteness of K3 surfaces and the Tate conjecture

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Given a class of varieties, it is natural to ask if it has only finitely many members defined over each finite field. I will discuss this question for K3 surfaces and explain the following result: one has such a finiteness statement for K3 surfaces if and only if the Tate conjecture holds for K3 surfaces. This is joint work with Max Lieblich and Davesh Maulik.

Tuesday, November 8
3:00 p.m. – 4:00 p.m.
Harvard (SC 507)