

# Stanford Algebraic Geometry — Seminar —

## K3 SURFACES VS. ELLIPTIC CURVES AND FLAT BUNDLES: A COMPARISON OF MODULI SPACES

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### Abstract

One of the dualities in string theory, the F-theory/heterotic string duality in eight dimensions, predicts an interesting correspondence between two seemingly disparate geometrical objects. On one side of the duality there are elliptically fibered K3 surfaces with section. On the other side, one finds elliptic curves endowed with certain flat connections and complexified Kahler classes. The talk will discuss the structure of the two moduli spaces involved as well as the geometry of the physics-inspired correspondence relating them.

Friday, September 26  
3:00 p.m. (Notice new time)  
Room 383-N

<http://math.stanford.edu/~vakil/seminar0304/>