

1021-14-56

Daniele Arcara* (daniele.arcara@email.stvincent.edu), Department of Mathematics, St. Vincent College, 300 Fraser Purchase Road, Latrobe, PA 15650, and **Aaron Bertram**, Department of Mathematics, University of Utah, 155 S 1400 E, Salt Lake City, UT 84112. *New Moduli Spaces for K3 Surfaces*. Preliminary report.

We construct moduli of stable (in the sense of Bridgeland et al) objects in the derived category of a K3 surface as Mukai flops of a projective moduli space of coherent sheaves. This is joint work with A. Bertram. (Received August 15, 2006)