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**Radu Laza\*** (rlaza@math.sunysb.edu), Department of Mathematics, Stony Brook University,  
Stony Brook, NY 11794. *The KSBA compactification for the moduli space of degree two K3 pairs.*

A classical (and still open) problem in algebraic geometry is the search for a geometric compactification for the moduli of polarized K3 surfaces  $(X,L)$ . If one considers instead K3 pairs  $(X,H)$  with  $H$  a divisor in the linear system  $—L—$ , the resulting moduli space has a natural geometric compactification given by the general MMP framework (pioneered by Kollar, Shepherd-Barron, and Alexeev). In this talk, I will discuss the existence of a good compactification for the moduli of K3 pairs in all degrees, and then discuss in detail the degree 2 case. (Received June 30, 2013)