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**Zhiyuan li\*** (zli2@stanford.edu), 450 Serra Mall, Bldg 380, Stanford, CA 94305. *Picard groups on moduli spaces of K3 surfaces.*

In this talk, I will give a brief introduction to the Noether-Lefschetz divisors on the moduli space of quasi-polarized K3 surfaces. It is conjectured that the Picard groups on these moduli spaces are spanned by the Noether-Lefschetz divisors. We verify this conjecture in the case of low degree K3 surfaces. (Received January 15, 2013)