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Abhinav Kumar* (abhinav@math.mit.edu), Cambridge, MA 02139. *Neron-Severi lattices of K3 surfaces of high rank, and arithmetic applications*. Preliminary report.

I will talk about the Neron-Severi and Mordell-Weil lattices of elliptic K3 surfaces of high rank, connected to Kummer surfaces of a product of elliptic curves, and some arithmetic connections and open questions. This is joint work with Masato Kuwata. (Received September 09, 2013)