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Max Lieblich* (lieblich@uw.edu), **Davesh Maulik** and **Andrew Snowden**. *Finiteness of K3 surfaces and the Tate conjecture*.

Given a finite field k , the Tate conjecture holds for surfaces defined over each finite extension of k if and only if there are only finitely many K3 surfaces over each finite extension of k . (Received August 12, 2011)