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**Jun Li** and **Christian Liedtke\*** ([liedtke@math.stanford.edu](mailto:liedtke@math.stanford.edu)), Department of Mathematics,  
450 Serra Mall, Stanford, CA 94305. *Rational Curves on K3 Surfaces.*

We show that projective K3 surfaces with odd Picard rank contain infinitely many rational curves. Our proof extends the Bogomolov-Hassett-Tschinkel approach, i.e., uses moduli spaces of stable maps and reduction to positive characteristic. (Received January 10, 2011)