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Harold Blum* (blum@umich.edu). *Thresholds, valuations, and K-stability.*

We study two invariants that measure the singularities of anticanonical divisors on Fano varieties. The first is the global log canonical threshold, which is also known as Tian's alpha invariant. The second is the stability threshold, an invariant recently introduced by Fujita and Odaka. Our approach to understanding these invariants involves valuations. Using results of Li and Fujita, we show that the K-(semi)stability of a Fano variety is detected by the stability threshold. This talk is based on joint work with Mattias Jonsson. (Received February 04, 2018)