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**SONG SUN\*** ([song.sun@stonybrook.edu](mailto:song.sun@stonybrook.edu)), Department of Mathematics, SUNY Stony Brook,  
Stony Brook, NY 11794. *Kahler-Einstein metrics on Fano manifolds.*

I will talk about joint work with Xiuxiong Chen and Simon Donaldson on the resolution of Yau's conjecture that a Fano manifold admits a Kahler-Einstein metric if and only if it is K-stable. (Received January 26, 2014)