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Gao Chen* (gchen@ias.edu), Institute for Advanced Study, 1 Einstein Drive, Princeton, NJ 08540. *On G_2 manifolds with conic singularities.*

In this talk, I will present my recent work on the construction of manifolds with G_2 holonomy and conic singularities. I will discuss the rate of asymptotic convergence to the cone metric and other related topics. (Received February 19, 2018)