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Bianca Santoro* (bsantoro@ccny.cuny.edu), NEW YORK, NY. *Complete Ricci-flat Kahler metrics on resolutions of singularities.*

In addition to explaining all the words in the title, we will discuss some existence results for complete Calabi-Yau metrics on crepant resolutions of singularities, and as an application, show some non-trivial examples of Ricci-flat manifolds. (Received June 29, 2011)