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231 W 18th Avenue, Columbus, OH 43210. *ACM bundles on cubics.*

We use Kuznetsov's description of the derived category of a smooth cubic hypersurface to give a new construction of some stable ACM bundles on cubic threefolds and fourfolds, via Fourier-Mukai techniques. If time permits, we will also discuss applications to deformations of K3 categories.

This is a joint work with Marti' Lahoz and Paolo Stellari. (Received February 09, 2012)