Meeting: 1003, Atlanta, Georgia, SS 14A, AMS Special Session on D-Modules, I

1003-14-1271　　　　**Sheldon H Katz*** (`katz@math.uiuc.edu`), Department of Mathematics, University of Illinois at Urbana-Champaign, Urbana, IL 61801. *Hypergeometric equations and mirror symmetry.*

The Picard-Fuchs equations of the family of anticanonical hypersurfaces in a Gorenstein Fano toric variety are well known to be among the equations of a corresponding GKZ system of hypergeometric equations. I compare these two systems of differential equations and discuss their relation to what was called the "toric mirror conjecture" in my book Mirror Symmetry and Algebraic Geometry written with David Cox. (Received October 04, 2004)

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