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Taylor Dupuy* (dupuy@math.ucla.edu), Einstein Institute of Mathematics, Edmond J. Safra Campus, Givat Ram, The Hebrew University of Jerusalem, 91904 Jerusalem, Israel. *Differential Algebra Meets Derived Categories*.

I will talk about instances where the Derived Category formalism naturally solves problems in Differential Algebraic Geometry. This work began during the Spring 2014 semester at MSRI. Some of what I talk about is joint work J. Freitag and A. Royer. (Received September 10, 2014)