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**Jesus F Rodriguez\*** ([jesusR@math.rutgers.edu](mailto:jesusR@math.rutgers.edu)), Dept of Mathematics - Hill Center, 110 Frelinghuysen Road, Piscataway, NJ 08854-8019. *A Bottom-Up Intensity Based Jump Model for Pricing CDOs.*

In this paper we consider an intensity based approach to pricing collateralized debt obligations (CDOs). We consider a bottom-up approach where each firm's intensity is given by an Ornstein-Uhlenbeck process driven by a Levy process. We borrow techniques from Fouque et al to create default correlation between firms, and are able to fit the market observed loss distribution.

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