1071-35-246 **Anna L Mazzucato***, Penn State University, University Park, PA 16802. *Approximate solutions to forward Kolmogorov equations.*

I will present an elementary method to approximate the pdf associated with general classes of continuous-time diffusion processes in the framework of forward Kolmogorov equations. This approximation is accurate to any order in the short-time limit and can be bootstrapped to large times. Numerical tests show this method works well for degenerate equations, such as those arising in pricing of contingent claims. (Received March 07, 2011)