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**Marlene Willie-Aymone Ouayoro\*** (mouayoro@gmu.edu), 4615 Cambryar Street, Fairfax, VA 22030. *Retrieving Economic Parameters in Asset-Flow Equations.*

Over its time-series, a financial instrument's price can reflect asset overpricing or under-valuation. This research attempts to replicate the observed price points through the Caginalp-Balenovich differential equation and measure their accuracy with the actual points. Then we fit our curve to the observed curve using the Gauss-Newton (iterative) Method to estimate the initial parameters of the differential equation. (Received September 18, 2009)