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# “Maximum Likelihood Estimation for Discretely Observed Multivariate Vasicek Processes ”

Monday, November 22, 2021  
Talk at 4:00 –Hilles 109

## Abstract:

Bonds play a major role in the well-balanced diversified portfolio because of low correlation with other asset classes. A pure discount or a zero-coupon bond is a contract that does not involve intermediate interest payments but is traded at a deep discount, rendering profit at the maturity time when redeemed for its full face value. As investment funds can create robust diversified portfolios with bonds, it is imperative that multiple bonds be analyzed simultaneously. The classical Vasicek model studies individual zero-coupon bonds and assumes the instantaneous interest rate follows a mean reverting process.

In this talk, we consider an extension of the original Vasicek model to multiple zero-