## "Maximum Likelihood Estimation for Discretely Observed Multivariat e Vasicek Processes "

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

Abstract:

Bonds play a major ole in the well-balanced diversified portfolio because of low correlation with other asset classes. A pureiscount 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 tim e when redeemed for its full face alue. As investment funds can created bust diversified portfolios with bonds, it is imperative that multiple bonds be analyzed simultaneously. The classicade of cek 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-