## Statistics Seminar Department of Mathematical Sciences

DATE:	Thursday, April 4, 2019
TIME:	1:15pm – 2:15pm
LOCATION:	WH 100E
	Kexuan Li, Binghamton University
TITLE:	On the Convergence Rate of the Quasi- to Stationary Distribution for the Shiryaev-Roberts Diffusion

## **Abstract**

For the classical Shiryaev–Roberts martingale diffusion considered on the interval [0, A], where A > 0 is a given absorbing boundary, it is shown that the rate of convergence of the diffusion's quasi-stationary cumulative distribution function (cdf),  $Q_A(x)$ , to its stationary cdf, H(x), as A goes to infinity, is no worse than  $O(\log(A)/A)$ , uniformly for any  $x\ge0$ .

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