

GRADUATE SEMINAR

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**Title: On a Statistical Test to Discriminate
Lifetime Distributions**

MSc. Student supervised by Dr. Andrei Volodin

Date: November 27th, 2017

Time: 3.30 – 4.30pm

Location: Math Lounge (CW307.20)

Abstract: Gamma, Weibull and Generalized Exponential distribution have been widely used in analyzing lifetime data in various aspects of profession. Model specification plays an importance role in this regard. The liability theorem used in analyzing data has a significant impact on the submission of statistical inference. The effect of model misspecification can be quite severe. Hence, this triggered the need to discriminate liability models for correct model specification in lifetime analysis. In this talk I will discuss the consistency of statistical test on sample data to be taken from one of the distributions of Reliability Theory. The test is based on the ratio of score statistics and as well I will discuss the behavior of the test statistic.