

GRADUATE SEMINAR

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STATISTICAL TEST FOR THE GENERALIZED GAMMA DISTRIBUTION

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3:30 PM

Math and Stat Computer Lab, CW 307.37

Abstract: Checking the lifetime distribution of a production for the purpose of locating and removing the defects in future and examining the reliability of a product is very important. The main goal of my research is to construct statistical inferential procedures for discriminating between three leading reliability models in survival analysis. These models are model of fatigue due to aging, model of a weak particle, and memoryless model of a defect at birth. We will be constructing some tests for pairwise distinctions between above-mentioned models and assess the results by Monte-Carlo methods of statistical simulations.