

GRADUATE SEMINAR

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Hypothesis testing for three main Reliability models

MSc Student supervised by Andrei Volodin

Wednesday, April 8th

2:00 PM

Math Lounge (CW307.20)

Abstract: It is important to check what is lifetime distribution of a production in order to locate and remove the defect in future and to examine reliability of products. Our subject of investigation is construction of statistical tests for testing three main probability models in reliability theory consisting of model of aging and deterioration, model of weak link, and model of defect at birth. We will construct six asymptotically locally most powerful tests for pair wise distinction between aforementioned models and assess the tests by computer simulation.