

概率论系列报告

报告题目 (Title): On The Waiting Time for A M/M/1 Queue
with Impatience

报告人 (Speaker): 吴宪远 教授 首都师范大学

时间 (Time): 4月10日(周一)下午 3:00-4:00

地点 (Venue): 北京大学理科一号楼 1303

摘要 (Abstract): This talk focuses on the problem of modeling the correspondence pattern for ordinary people. Suppose that letters arrive at a rate λ and are answered at a rate μ . Furthermore, we assume that, for a constant T , a letter is disregarded when its waiting time exceeds T , and the remains are answered in {it last in first out} order. Let W_n be the waiting time of the n -th {it answered} letter. It is proved that W_n converges weekly to W_T , a non-negative random variable which possesses a density with {it power-law} tail when $\lambda = \mu$ and with exponential tail otherwise. Note that this may provide a reasonable explanation to the phenomenons reported by Oliveira and Barab'asi in Nature 2005.

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