Decay Property of Stopped Markovian Bulk-Arriving Queues with c-Servers

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Abstract: This talk concentrates on investigating decay properties of Markovian bulk-arriving queues with c-servers which stop immediately after hitting the state zero. The exact value of the decay parameter $\lambda_C$ for the case $B'_1(1) > 0$ is firstly given. Then by using the generating functions of the corresponding $q$-matrix, a test function $F_\lambda(s)$ is constructed. The exact value of the decay parameter $\lambda_C$ for the case $B'_1(1) \leq 0$ is then obtained according to the sign of $F_\lambda(s)$.

References