

USTHB

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DÉPARTEMENT de PROBABILITÉ et STATISTIQUE

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***RELIABILITY AND PERFORMANCE ANALYSIS OF AN
UNRELIABLE RETRIAL QUEUEING SYSTEM WITH
NEGATIVE ARRIVALS.***

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Abstract:

We examine a Markovian retrial G-queue where the customer in orbit is removed. The server is susceptible to both active and passive breakdowns. To evaluate system performance and server reliability, we utilize the matrix geometric method. Furthermore, we assess the influence of different parameters on metrics such as the average number of customers in the queue.