## Stochastic search process under resetting

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The optimization of search processes using various protocols has garnered significant attention recently, with resetting-mediated dynamics proving to be an especially effective approach for shortening the completion time of complex search processes. Resetting typically operates by halting an ongoing process at a specific rate and returning it to a predefined state, effectively constraining trajectories that deviate far from the target. While this confinement introduces anomalous non-equilibrium behavior, it simultaneously enhances the speed of search processes by eliminating longer, time-consuming paths. We investigate the mean cover time and the probability density function (PDF) of the cover time for a finite interval of size L using a single continuous one-dimensional Brownian motion. One of the important quantity to define the efficiency of any search process is the mean cover time. We have investigated the impact of resetting on the mean cover time.