INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

SEMINAR

Date: August 20, 2024
Time: 04:15 PM

VENUE:

L- infinity

(5th Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

TITLE:

Transience of continuous time conservative random walks

SPEAKER:

Satyaki Bhattacharya

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ABSTRACT:

We consider two continuous-time generalizations of conservative random walks introduced in [J.Englander and S.Volkov (2022)], an orthogonal and a spherically-symmetrical one; the latter model is known as random flights. For both models, we show the transience of the walks when d≥2 and the rate of changing of direction follows power law t^{−α}, 0<α≤1, or the law (lnt)^{−β} where β>2.

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