



Contribution ID: 44

Type: **Talk**

## Stochastic Resetting

*Wednesday, 18 September 2019 17:30 (30 minutes)*

Evolving stochastic process, when interrupted at random epochs and reset to its initial condition, reaches a new nonequilibrium stationary state. The approach to the stationary state is accompanied by an unusual ‘dynamical phase transition’. Moreover, the mean first-passage time to a fixed target becomes a minimum at an optimal value of the resetting rate. This makes the diffusive search process rather efficient. Resetting dynamics has been studied intensively in the last few years and is a rapidly emerging field in stochastic processes and nonequilibrium systems. In this talk, I’ll give an overview of this evolving field.

### Summary

**Primary author:** MAJUMDAR, Satya (CNRS, LPTMS, Universite Paris-Sud (Orsay), France)

**Presenter:** MAJUMDAR, Satya (CNRS, LPTMS, Universite Paris-Sud (Orsay), France)

**Session Classification:** Session 1