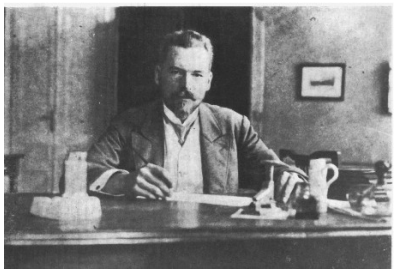

Contribution ID: **60** Type: **Talk**

Fluctuation Theorems for Systems without Stationary PDF: KPZ case

Thursday, September 19, 2019 10:00 AM (20 minutes)

We analyze a couple of simple systems, without stationary probability distribution, in order to show how to proceed for obtaining detailed as well as integral fluctuation theorems in such a kind of systems. To reach such a goal, we exploit a path integral approach that adequately fits to this kind of study. This methodology, together with the variational approach, are also exploited to analize fluctuation theorems in the paradigmatic KPZ equation, as well as to determine a Large Deviation Function. This lead us to conjecture that a higher critical dimension does not exists for the KPZ system.

Summary

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Session Classification: Session 2