

On the Hill relation and the mean reaction time for metastable processes

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The purpose of this talk is to illustrate how the Hill relation and the notion of quasi-stationary distribution can be used to analyse the biasing error introduced by many numerical procedures that have been proposed in the literature, in particular in molecular dynamics, to compute mean reaction times between metastable states for Markov processes.

This presentation is based on a joint work with Manon Baudel and Tony Lelièvre.