

Eric Vanden-Eijnden (Courant Institute)

The string method as an adaptive sampling technique to determine transition pathways and rates in complicated systems

In the study of rare events, the ultimate objective is to determine dynamical transition pathways and rates without having to simulate true dynamical trajectories but rather, by sampling directly suitable geometric properties of the potential. I will discuss which such properties can be used to this aim, and how to turn this observation into an numerical procedure, the string method.