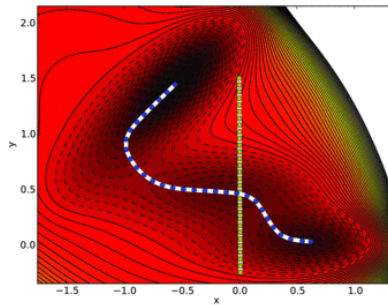




# Measuring transition rate from simulations

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- Perform particle simulations according to Brownian dynamics in the external potential.
- Study the rate of barrier crossings and its temperature dependence (Kramers reaction-rate theory).



**Figure 1** Minimum energy path for the model potential. (J. Chem. Phys., 2007, 126, 164103.)

## Your Challenges

- Learn Brownian dynamics simulations.
- Find minimum energy path in the external potential using "string" method.
- Perform trajectory analysis to calculate transition rate from one minimum of the external potential to the other.

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