## The minimization problem of Allen-Cahn action

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We consider the Allen-Cahn equation with a white noise. The switching from one stable equilibrium position to another rarely happens in the effect of a white noise. The probability of this switching is represented by using the minimum of Allen-Cahn action. Thus, we need to consider the minimization problem of Allen-Cahn action. In this talk, we consider the minimization problem of Allen-Cahn action with a double-well potential whose depths are different.