



Sharp interface limit for a large deviation rate function

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In this talk, we discuss on the singular limit problem for a functional motivated by large deviation theory. A property of the functional is that its minimum solution is a solution of the Allen-Cahn equation. It is known that the solution of the Allen-Cahn equation generate a sharp interface which move along with the mean curvature equation as an approximate parameter tends to 0. For the functional, we will consider a formal gamma convergence related to the sharp interface limit. This talk is based on a joint work with Prof. Kenkichi Tsunoda (Kyushu University).