

A Gamma-convergence approach to large deviations

Mauro Mariani

(Submitted on 3 Apr 2012)

A rigorous connection between large deviations theory and Gamma-convergence is established. Applications include representations formulas for rate functions, a contraction principle for measurable maps, a large deviations principle for coupled systems and a second order Sanov theorem.

Subjects: **Probability (math.PR)**; Functional Analysis (math.FA)

MSC classes: 60F10

Cite as: **arXiv:1204.0640 [math.PR]**

(or **arXiv:1204.0640v1 [math.PR]** for this version)

Submission history

From: Mauro Mariani [[view email](#)]

[v1] Tue, 3 Apr 2012 09:56:37 GMT (22kb)

[Which authors of this paper are endorsers?](#)

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

math.PR

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1204](#)

Change to browse by:

[math](#)

[math.FA](#)

References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))



Science
WISE