Universality of the large deviation principle in one-dimensional dynamics
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We study the dynamics of smooth interval maps with non-flat critical points. For every such map that is topologically exact, we establish the full large deviation principle of level 2 for empirical means. In particular, the large deviation principle holds for every non-renormalizable quadratic map. This is joint work with Juan Rivera-Letelier (University of Rochester) and Hiroki Takahasi (Keio University).