

Large Deviation for Lozenge Tiling Dynamics

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We consider dynamics of lozenge tilings, or equivalently that of dimer covers of honeycomb lattice, or three-dimensional Young diagrams. One can choose the flip rate to satisfy the so-called gradient condition, which was originally proposed by Luby, Randall and Sinclair. The hydrodynamic limit of this model was studied by Laslier and Toninelli (CMP, 2018) under the periodic boundary condition. We discuss the corresponding large deviation principle. This is joint work with Fabio Toninelli.