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Conservative Restricted Solid-on-Solid Model

We introduce a new interacting particle system for dynamics of interfaces. The model is conservative in the sense that the total number of particles is preserved. In addition, the model is restricted in the sense that possible interface configurations are restricted to have a gradient that is bounded in absolute value by 1, $|h(x+1) - h(x)| \le 1$. The model allows particles to climb, fall, jump, and slide. Mean-field approximations of this model will be discussed.