

**PERSISTENCE PROBABILITY FOR A CLASS OF  
GAUSSIAN PROCESSES RELATED TO RANDOM  
INTERFACE MODELS**

HIRONOBU SAKAGAWA

We consider a class of Gaussian processes which are obtained as height processes of some  $(d+1)$ -dimensional dynamic random interface model on  $\mathbb{Z}^d$ . We give an estimate of persistence probability, namely, large  $T$  asymptotics of the probability that the process does not exceed a fixed level up to time  $T$ . The interaction of the model affects the persistence probability and its asymptotic behavior changes depending on the dimension  $d$ .