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*Largest projections for random walks*

We show that the largest subsurface projection distance between a marking and its image under the  $n$ th step of a random walk grows logarithmically in  $n$ , with probability approaching 1 as  $n$  goes to infinity. As an application, we confirm a conjecture of Rivin about the asymptotic behavior of systole in random mapping tori.

This is joint work with Alessandro Sisto.