1156-60-224 **Davit Karagulyan*** (dkaragul@umd.edu), Department of Mathematics, University of Maryland, 1301 Mathematics Building, College Park, MD 20740, and **Dmitry Dolgopyat**. *Transient dynamical random walk with unbounded return times.*

We consider a one dimensional model of a dynamical random walk F defined on $\mathbb{T}\times\mathbb{Z}$ and given as follows; for $(x,n)\in\mathbb{T}\times\mathbb{Z}$ let

$$F(x,n)=\Big((ax+h_n(x)) \bmod 1, n-1_{W_{n,-1}}(x)+1_{\mathbb{T}\setminus W_{n,-1}}(x)\Big),$$

where $a\in\mathbb{N}$ and for all $n\in\mathbb{Z}$, $h_n\in C^2(\mathbb{T})$, $W_{n,-1}=\cup_{i=1}^m I_i^n$, where $\{I_i^n\}_{i=1}^m$ is a collection of intervals. We also suppose that there is $\delta>0$ and a set $W_{-1}\subset\mathbb{T}$, so that for all $n\in\mathbb{Z}$ $\|h_n\|_{C^{1+\mathrm{Lip}}}\le\delta$ and the Hausdorff distance between $W_{n,-1}$ and W_{-1} is smaller than δ. Under certain conditions on a and the set W_{-1}, we show that for δ sufficiently small, F has a drift and $z_n(x)=\pi_{\mathbb{Z}}(F^n(x,0))$ satisfies the central limit theorem. (Received January 24, 2020)