SRN Zd: CITZ d=2 rec, d≥3 trooms.
Balanied RWRE:
$$h=(W_X)_{X\in\mathbb{Z}^d}$$
 environment i $W_X = (W_X(e))_{i=1-1}$
T^{*} neconie on W
RWRE $iX_n)_{n>0}$ $\mathbb{D}_{i}^{1}X_{n+1} = iX_{i}e_{i} = u_X(e)$
Balanied environment: $\mathbb{P}_{i}^{1}W_X(e) = u_X(e)$
Balanied environment: $\mathbb{P}_{i}^{1}W_X(e) = u_X(e)$
 $\mathbb{P}_{i}^{1}(u_X(e) \geq e) = 1$ $\forall e_{i}^{1} \Rightarrow CiT$ for $\mathbb{P}_{i}^{1}(u_{i}^{1}(e) = u_{i}^{1}(e))$
The (Lawler '83) $\mathbb{P}_{i}^{1}(w_{i}^{1}(e) \geq e) = 1$ $\forall e_{i}^{2} \Rightarrow CiT$ for $\mathbb{P}_{i}^{1}(u_{i}^{1}(e) = u_{i}^{1}(e))$
The (G-2eitain) $\mathbb{P}_{i}^{1}(u_{i}^{1}, \mathbb{P}_{i}^{1}(w_{i}(e) > o) = 1$ $\forall e \Rightarrow same$
Car: $d=2$ rec. (kuth: CiT, $d=2 \Rightarrow rec.)$
Also can Prove $d \geq s$ translat:
 $\mathbb{P}_{i}^{1} of CiTTh$. Xn is a martingale under Pro-
Need to find an ergodic measure \mathbb{P}_{i}^{1} for process viewed from
The particle $\Theta^{X_{i}}$
 $\mathbb{Q}_{i} \Rightarrow \mathbb{Q}_{i}^{1}$ invariant: Musione \mathbb{Q}_{i}
 $\mathbb{Q}_{i} \Rightarrow \mathbb{Q}_{i}^{1}$ invariant: Now need $\mathbb{Q}_{i} \mathbb{P}_{i}^{1}$ \mathbb{Q}_{i}
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 $\mathbb{Q}_{i} \Rightarrow \mathbb{Q}_{i}^{1}$ invariant: Now need $\mathbb{Q}_{i} \mathbb{P}_{i}^{1}$ \mathbb{Q}_{i}
 $\mathbb{Q}_{i} = \mathbb{Q}_{i} + \frac{1}{2} \sum_{i=1}^{n} \mathbb{Q}_{i}^{1}$
 $\mathbb{Q}_{i} = \mathbb{Q}_{i} = \mathbb{Q}_$