

Need: $\sum_{j=1}^{\infty} m(A^j(W_j)) = \sum_{j=1}^{\infty} |\det A|^j m(W_j)$

$$= \sum_{j=1}^{\infty} |\det A|^j r_j |\det A|^{-j} m(B)$$

$$= m(B) \sum_{j=1}^{\infty} r_j, \text{ where } r_j \text{ is the proportion of}$$

$A^{-j}(B)$ that W_j fills up.

But, $r_j \approx \frac{1}{\#(A^{-j}(B(0,1)) \cap \Gamma)}$ so we need

$$\sum_{j=1}^{\infty} \frac{1}{\#(A^{-j}(B(0,1)) \cap \Gamma)} = \infty.$$