RANDOM WALK B= {After n steps, back to the origins N=100 IZ = JL, RJA, LRRLL --- $P(B) = \frac{|B_n|}{|P(B)|} = \frac{|B_n|}{2^n} = \frac{$ n is even P(B₁₀₀) = 7.9%. Slope: -1/2P(B_n) scales $\approx \frac{1}{\ln n}$ Now consider this: The "Back to origin for the first time" PCFn) < PCBn) s Ital n: 2 4 6 8

(Fnl: 2 2 4 10 m

