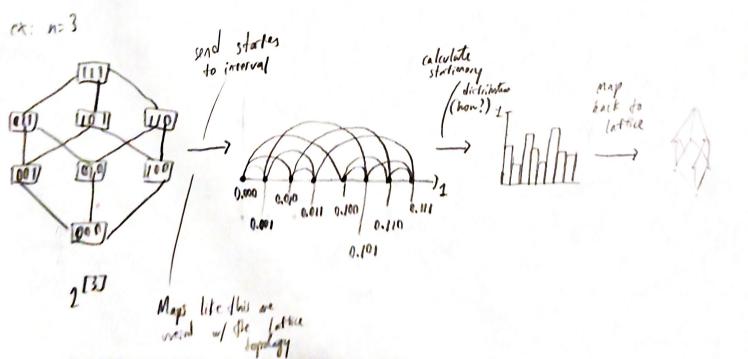
12/7 (1

This is not the same problem as the one I've been considering, but I want it written out so I can come back to it the next time I have a desire to.

Let G be the Rado graph (which I believe is represented by graphon  $A = \frac{1}{2}$ ? (on check this), and let Gn be the induced subgraph of (Q on [n]. Let An be the odjacency matrix. Let L be an integer corresponding to an 1% load on [n], and let B = BL. Also, let  $2^{[n]} = [1]_0^n$ , and finally, let BrAn(A,B,E) be the ergodified broncher-annihilator process, with  $0 < \varepsilon < 1$ .

BrAn imposes a directed graph on 2 [n]

BrAn is an ergodic Markov chain on 2<sup>(n)</sup>, but the statespace is so large that analyzing the statespany distribution is very difficult. What I we been wanting to try is a map such as the following:



2[m] A [n] 0 +6 [n1] 0 H.) 2[m] Appendix 1 Basiculty, and only set We've seen before stored in wednesd have bute force to calculate the transition probabilities: For all XE 2[n]: y = Ax; W\_ovb = {}, ferall bin B: w= y+b w=avb1 U= {w} w\_did = {w:[] for win w\_avbl} for all bin B: · Chock in the force w= y+6 w\_Jict[w]. append (1P(b= b|x=x)) and perhaps trustate into for win w\_dict. keys(): math notation or previouse. w\_dict[w]= sum (w\_dict[w]) = did = { 2: {} for = in 2 in 3 for win w-list keys (): z=f(w) Z\_dict[Z] U={w} for Zin 2 [m] T(x, z) = sum([w\_did[w] for win z\_dict[z]])

Appelor 2 is proof that P(zzn) is a fraction