10/30 Jorge Kurchan. know" expect-suspect. know know \$ 512 = N $E = \sum_{i \in \mathcal{A}_i} J_{i, i} \circ p S_{i, i} \circ S_{ip}$ P= 2 Pij Sis; Jij random, si e(±1) Sherrington - Kirkpatrick Parisi >> Spherical I Jijksisk = 250 #= e NfIE)

#= e NfIE)

In Z = In Z e - PE

seSN

p - + to threshold state n=1,1,3 - replica In # critical pts Imm 2n-1 semi cipicle $E = \mathcal{I}_{i \neq j} (A A^{+})$

