May 24th, 2023 agreentiting Swendson P 3 3 0 3 P past sampling a somelow grouph a by adding edges bother vertices by some spin with prob. pol-et spins of particles uniformly for for each component cacycle in the Foliates on boundaries (i.e. of for Meeting w/ Paul! Paul doing 3d first, then 40) Paul is autius using deality for Ising o muting sure to get papers and reading the literature!

o herethnartes for simulations [Caselle 1995]

o 5-1 conjecture (in Drophox) Caselle 1995]

o getting read up on the physics stuff! about preferred spin?

o can be interpret phase fransitions in terms of Polyakor variables?

(i.e. same curres but on the forms? · what to start with: o mass gap correlation and criticality of Wilson loop variables meaning Conspinal laffice younge they

o keep in mind that the time and space direction are the

same (ispece (modeling 3rd space in I d time)

o what's the plan:

or programming things ASAP!

or try to find behavior at criticality of the random vars me

want in existing papers!

or comparison sincle— Clim conserved. [invaded-cluster algorithms? Swendson-Wany! Swendson-Way us. big-hop o in (211)-dim version, different behavior for plaquettes in the plane? Caselle 1975, but manyhe there isn't a good different Juseful be it defines critical exponents!

