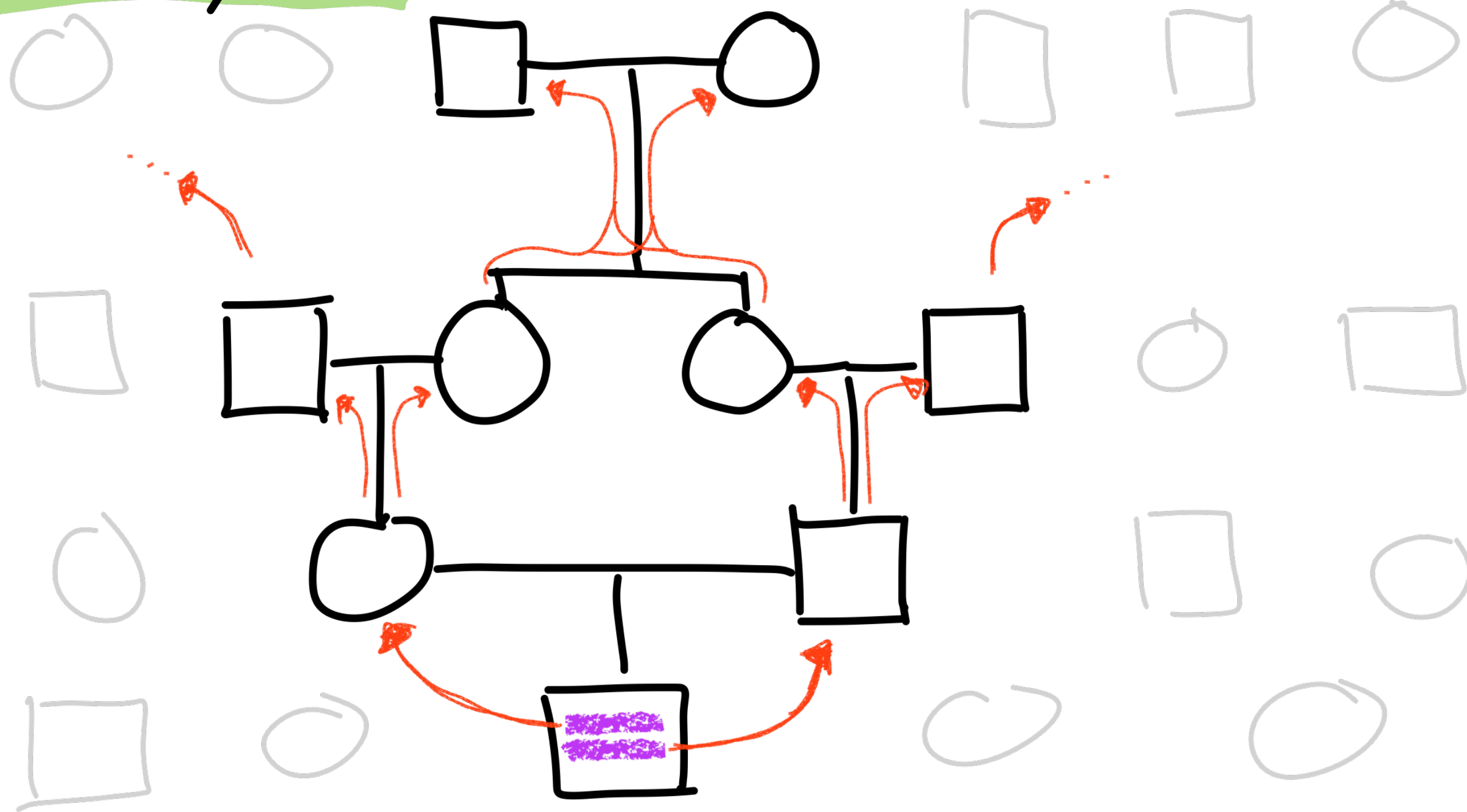


Non tree-like ancestry

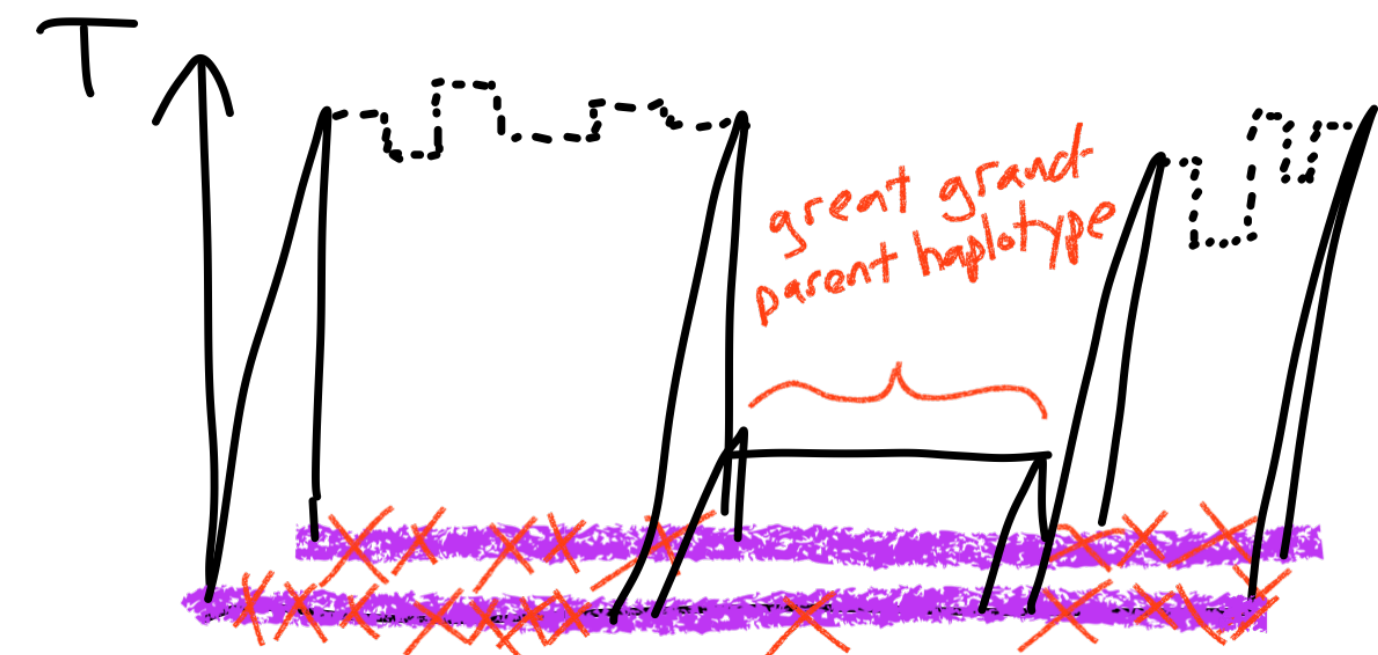
Recombining genomes as mosaics

1st - cousin
mating



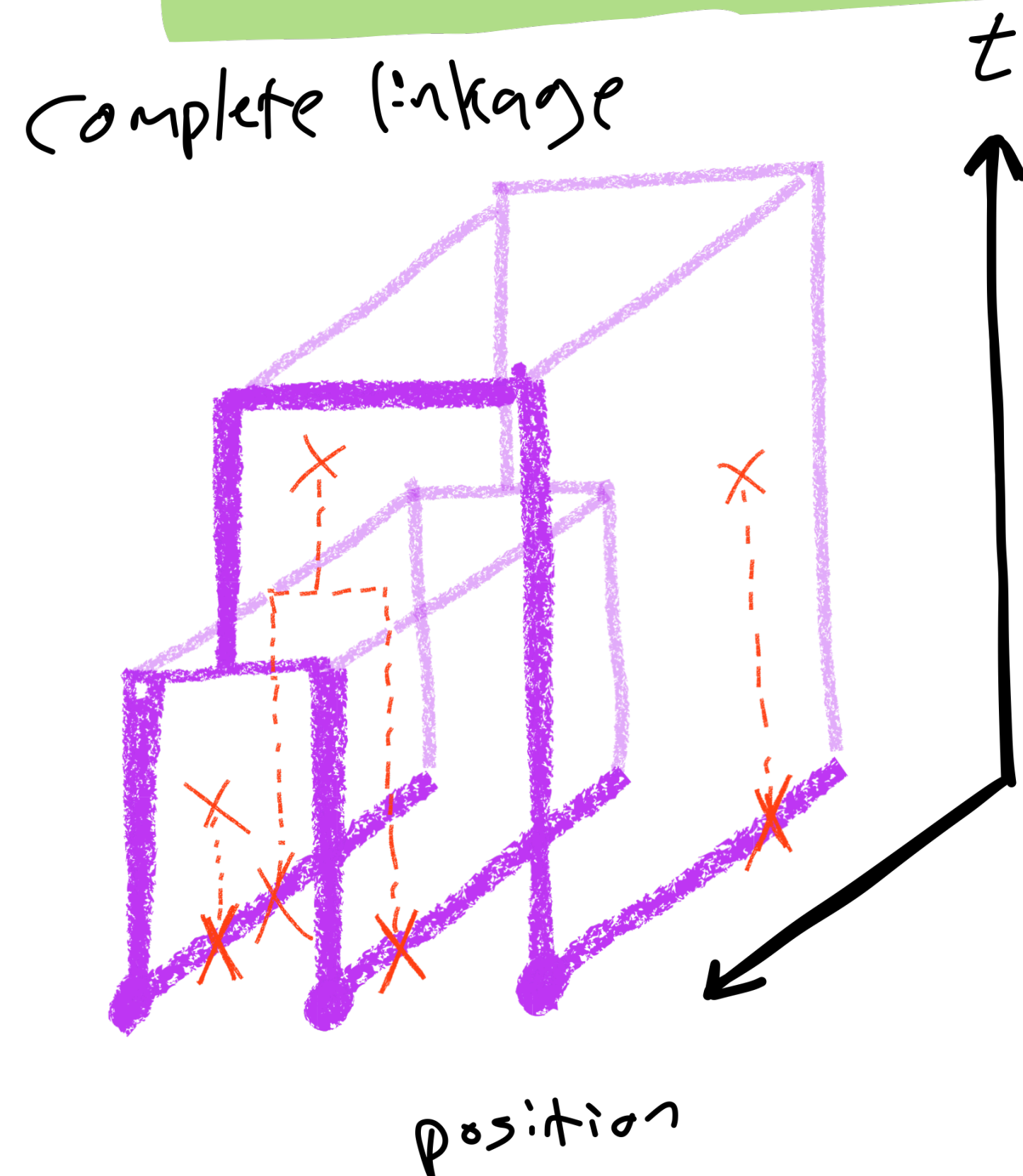
Question:

- probability $\boxed{?}$ to coalesce in great grandparent?
- Otherwise much deeper coalescence



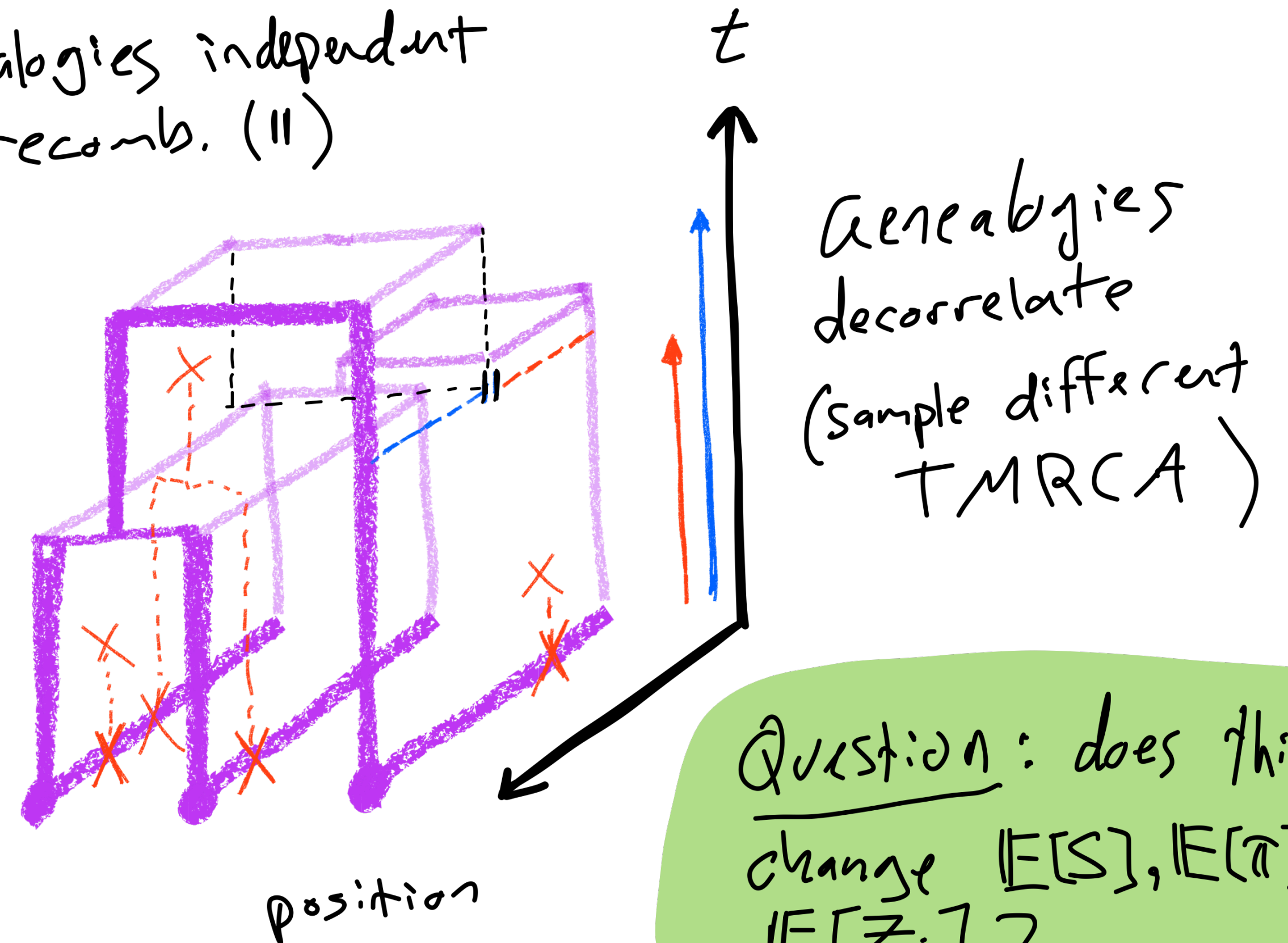
The coalescent with recombination

Without recombination:
coalescences and mutations



With recombination:
add Poisson recombination events!

Genealogies independent
above recomb. (II)



Question: does this
change $E[S]$, $E[\pi]$,
 $E[Z_i]$?