Usually, is setter an index

of modes, but I'm just used to
working with it. $V_{or}(\hat{S}(t)) = \hat{S}(t)^2 \sum_{t \leq t} \frac{d_i}{n_i (n_i - d_i)}$ First off. my t's are in IN. so I think I can simplify this expression N;+1 = N & -d; -(c;) this is a random variable $\widehat{Var}(\widehat{S}(\tau)) = \widehat{S}(\tau)^2 \sum_{i=1}^{\tau} \frac{J_i}{n_i(n_i - J_i)}$ no = # messages injected, this is what I can control. $\leq \sum_{i=1}^{\tau} \frac{d_i}{n_i(n_i - d_i)}$ Note: Usually, the extinction $V_{\tau} \leq \sum_{i=1}^{\tau} \frac{d_i}{n_i(n_i \cdot d_i)}$ times are limited to They a giction 1. but stace some nemages die immediately, it may be handy of the correct internal $T=1: V_i \in \frac{d_i}{n_i(n_i-d_i)}$ typ. For now well les en this priller to define this. Propost! The dime housen T is a stopping time, Probably extention time excells t: S(t)
privately consoring time excells t: U(t) if M is the smallest E and a We went A projected variance estimate is $\int_{0}^{t} \left(t\right) \left[\int_{0}^{t} \int_{0}^{t} \frac{\lambda(u)du}{s(u)U(u)} + \int_{0}^{t} \frac{1}{t} \left[t > \tau\right] \int_{0}^{t} \frac{\lambda(u)du}{s(u)U(u)(7+t-u)}\right]$ S(t) + Zo12 Vt to be of tough E, so we need Zarz VT < E = VT LE Uniformal accord of potients to the trial at rate or = Vt C (Zy)

A(t): Loss to follow up at a rate t)

A(t): hazord function.

We also don't need to involve integrals since the set of possible extinction times is discrete.

T: The time horizon

This is not satisfied by my problem, the loss to follow up hypens once we've observed some number of extinctions M from each node. So there is a depends on M.

UR Hermite normal forms to girl an algorithm for the statement distribution . Use good notation for the kind of sets such as {x \in [1]0": x = 1, x free, x = 1, x free, etc.}
and a good labeling of a message tree-in-to give an algorithm expressing the publishies of message survival (I storted this way back in NB2, maybe I can findit). for x \in X \in let [x] be the set full y \in X_n s.t. y≥x

s.t. y > x

now we can talk about sets like the
example where with the characters

U[eh], where eh is a testardal hisis
wester in the h-fin direction.

T=1 means that a node in \tilde{N} ; was artise, which happens m/p $\sum_{i=1}^{\infty} \{ \pi_{i} \}_{i=1}^{\infty} \{ \pi_{i}$

[Ni) = () [en)

 $P(\tau=1) = \sum_{x \in [\bar{N}_i]} \pi_x$

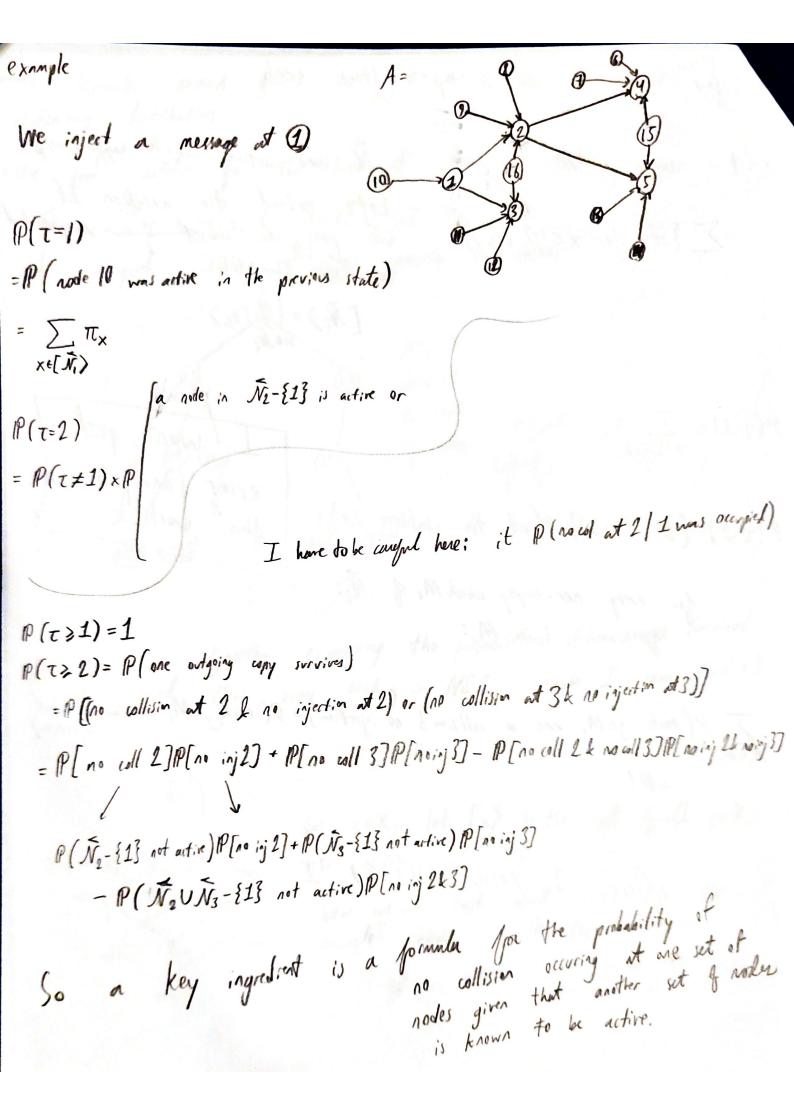
 $P(\tau=2)=[1-P(\tau=1)]\times P(all the children die).$

for each i in M;

error analysis in this work!

 $\sum_{M_i \in \mathcal{N}_i} P(each j \in M_i)$ has a collision & no injection) + $P(each j \in M_i)$ has no call but injection) + $P(each j \in M_i)$ has no call but injection)

Once I know P(x=2). I can attempt induction



formula for P[no inj at 2,3,...n] is much more complicated due to 15.

The E modification to the chain. L) If I go back to the old founds modification. the January 8 = BLU{13, bi~ {\\epsilon\} \end{artist} and if inter
(1-\epsilon\) on BL This alphotet everywhere

(1-\epsilon\) on \{13} exapt the 0 state B=[1]0 by {(1-E) unif (BL) on BL E unif [1]0-BL) on [1]0-BL | at the O state I believe we can use "convex combination" to simplify this I This is good because the alphabet is the same for every state that could possibly fearl to a collision; the last state could not have been To because a message was injerted (except for the newage was injected, that could be O.