



dist(u,u) < dist(u,s) + dist(s,v)

gilt Yu, v

D= max { dist (u, v) } £ 2 D

Quan $G(f+1) = \sum_{j=1}^{60} X_j(+)$

Non E[GC+41)] = E[ZX;Cf)] = ZE[X;C+)] = [Pu[x; (4) = 1] latuition. Intiziert Anrofe Pv. dass kinden inticient wird: muss von jedem infizierten Rowten <u>nicht</u> augenten weden (1-1/n) (C+) Ws/Ht dass goscinder Kinden gozond Gleibt

$$\begin{array}{lll}
&= \sum (1-1/n)^{|Cf|} \\
&= \sum (1-1/n)^{|Cf|} \\
&= \sum (1-1/n)^{1/2} &= \sum (1-1/n)^{n} \\
&= \sum ((1-1/n)^{n})^{1/3} &= \sum (1-1/2)^{1/2} \\
&= \sum (1-1/2)^{1/2} &= \sum (1-1/2)^{1/2} \\$$

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