

Zf= Sp(i). {ext if ht(i)=y(i) ext if ht(i) = y(i)
= SDHU) xext i hali)=yu) i hali)+yu)
$= e^{-Ct}(1-E_t) + e^{-Ct}$ $= 2\sqrt{E_t(1-E_t)}$
We know $Et = 1 - 8t$ $Zf = 2 \sqrt{1 - 8t} (8t + 1)$
$Zf = 2 \left( \frac{1 - 3t}{2} \right) \left( \frac{y_1}{z} + \frac{1}{z} \right)$ $= 2 \left( \frac{1 - 3t}{4} \right)$ $= 1 - 43t$
which is $3^2$ $\leq e^{274} = \sqrt{4}\sqrt{2}\sqrt{4} \equiv \exp(-2) \leq \sqrt{2}$ $\leq e^{-274}$
Henre proved.