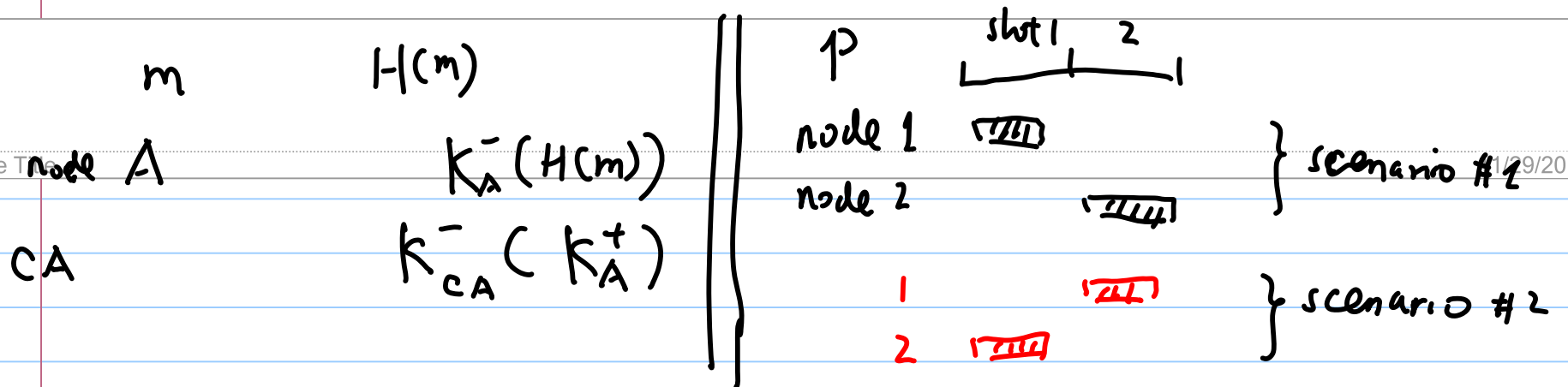


Note T 11/29/2012



$$\begin{aligned} P(Q) &= P(\#1) + P(\#2) \\ &= P(1-p) \cdot p + (1-p) \cdot p \cdot p \\ &= 2p^2(1-p) \end{aligned}$$