1st thow -> Pi=Pf $0 = 0.5(-15) + 124.5 \Delta V$ $\Delta V_{7} = 0.5(-15)$ $\Rightarrow V_{1} = 0.5(-15)$ 2nd throw -> result reference frame new 0 = 0.5(-15) + 124 Av. $\Delta V_2 = 0.5(15)$ $V_2 = \frac{0.5(15)}{124} + V_1$ $V_2 = 0.5(15) + 0.5(15)$ $= 0.5(15)\left(\frac{1}{124} + \frac{1}{124.5}\right)$ $\frac{124.5 + 124}{(124)124.5}$ 124.5+124 124.5 + 124 124 124.5 124.5 124 124.5 + 1 1 + 124 124.5

124

124.5