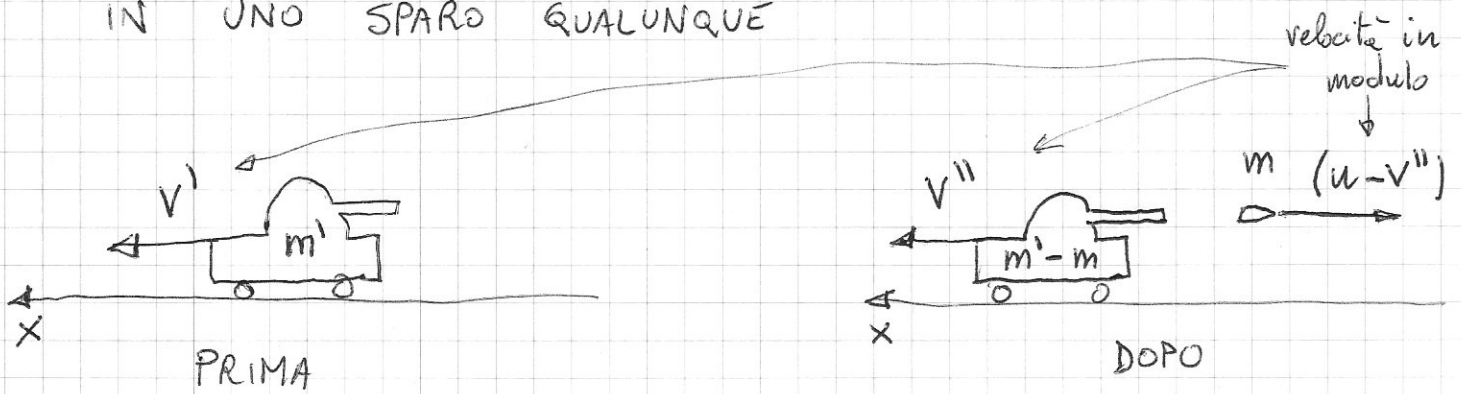


IN UNO SPARO QUALUNQUE



ESSENDO NULLE LE F ESTERNE SU X SI CONSERVA P_x

$$m'v' = (m'-m)v'' - m(u - v'') = m'v'' - \cancel{mv''} - mu + \cancel{mv''}$$

$$v'' = v' + \frac{m}{m'}u$$

1° SPARO) $v' = 0, m' = M \rightarrow V_1 = \frac{m}{M}u$

2° SPARO) $v' = \frac{m}{M}u, m' = M - m \rightarrow V_2 = \frac{m}{M}u + \frac{m}{(M-m)}u$

3° SPARO) $v' = \frac{m}{M}u + \frac{m}{(M-m)}u, m' = M - 2m \rightarrow V_3 = \frac{mu}{M} + \frac{m}{(M-m)}u + \frac{m}{(M-2m)}u$

3 TERMINI

QUINDI $V_n = mu \sum_{k=1}^n \frac{1}{[M - (k-1)m]}$