$$\Delta \bar{p}_{1} = m_{1}\bar{n} - m_{1}\bar{n}_{1}; \stackrel{(*)}{=} - (m_{2}\bar{n} - m_{2}\bar{n}_{2};) = -\Delta \bar{p}_{2}$$

DER = Ex, f - Eh, i =
$$\frac{1}{2}$$
 (m, + m2) $\sqrt{2}$ + $-\frac{1}{2}$ (m, $\sqrt{3}$ + $\frac{1}{2}$ me $\sqrt{2}$)

$$m_1 \frac{\overline{N_1}}{N_1} = (m_1 + m_2) \overline{N_2} = (m_1 + m_2) \overline{N_3} = (m_1 +$$

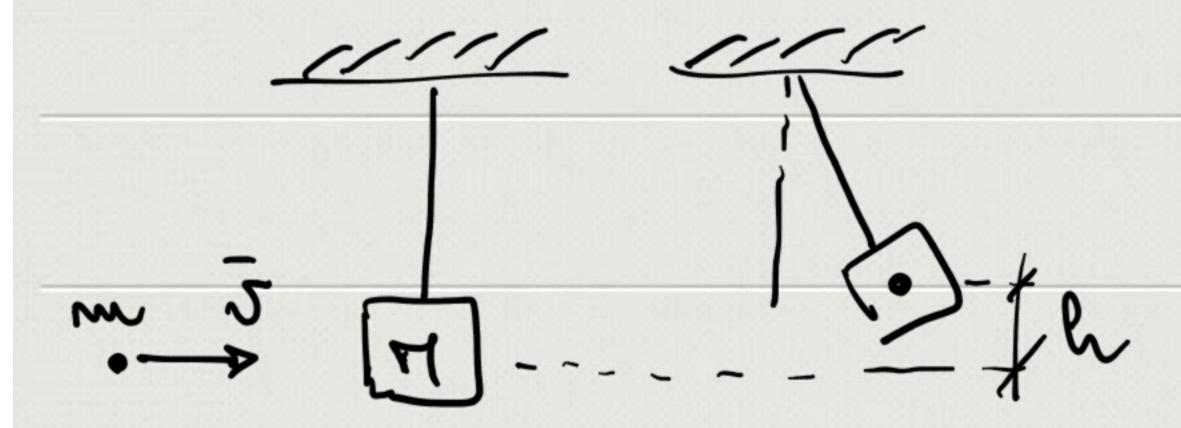
$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{$$

$$\Rightarrow 5 = \frac{\sqrt{m_1^2 \sigma_1^2 + m_2^2 \sigma_2^2}}{m_1 + m_2}$$

2:
$$x_{2}(t) = d + \sqrt{0.2}t + \frac{1}{2}Qt^{2}$$

 $x_{1}(t^{+}) = x_{2}(t^{+}) \implies \sqrt{0.1}t^{+} + \frac{1}{2}Qt^{2} = d + \sqrt{0.1}t^{+} + \frac{1}{2}Qt^{2}$

Pendolo balistico



$$mv = (m+H)v = v = \frac{m}{m+H}v$$

$$\frac{1}{2} \left(m_4 H \right) \sqrt{2} = \left(m_4 H \right) gh \Rightarrow \frac{m^2}{(m_4 H)^2} N^2 = 2gh$$