1: equatione del moto uniformemente

accelerato => indipendente della massa

2.1: Conservesione delle quantité di moto: P=cost

- veto elentico (m, = mz)

mi  $\bar{N}$ ,  $\bar{N}$   $\Rightarrow \bar{N}_1' = 0$   $\bar{N}_2' = \bar{N}_1'$ 

- voto completamente anelostico  $(m_1 = m_2)$   $m_1 \rightarrow \bar{N}_1$   $m_2 \rightarrow m_1 N_1 = (m_1 + m_2) N_2 \rightarrow N_2 = \frac{N_1}{2}$ - "esplosione"  $m_1 = m_2$ 

 $P=0=m_1\bar{s}_1'+m_2\bar{s}_2' \Rightarrow \bar{s}_1=-\bar{s}_2$ 

RE=macr= dP +0 => P + cont=) vor +0

$$\begin{array}{c}
x & A \\
P(t) & S(t) = S_0 + Vt \\
\Rightarrow & \Phi(t) = \Phi_0 + \omega t \\
\Rightarrow & x(t) = A sin(\omega t + \Phi_0)
\end{array}$$

6: acceleratione di Coriolia 
$$\overline{Q}_{c} = 2\overline{\omega} \times \overline{\nu}'$$

$$\overline{Q}_{c} = \overline{Q}' + \overline{Q}_{o}' + \overline{\omega} \times (\overline{\omega} \times \overline{\nu}') + \frac{d\overline{\omega}}{dt} \times \overline{\nu}' + 2\overline{\omega} \times \overline{\nu}'$$

$$\overline{Q}' = \overline{Q}_{o}' = 0 \quad \Rightarrow \quad \overline{Q} = \overline{\omega} \times (\overline{\omega} \times \overline{\nu}') + 2\overline{\omega} \times \overline{\nu}'$$

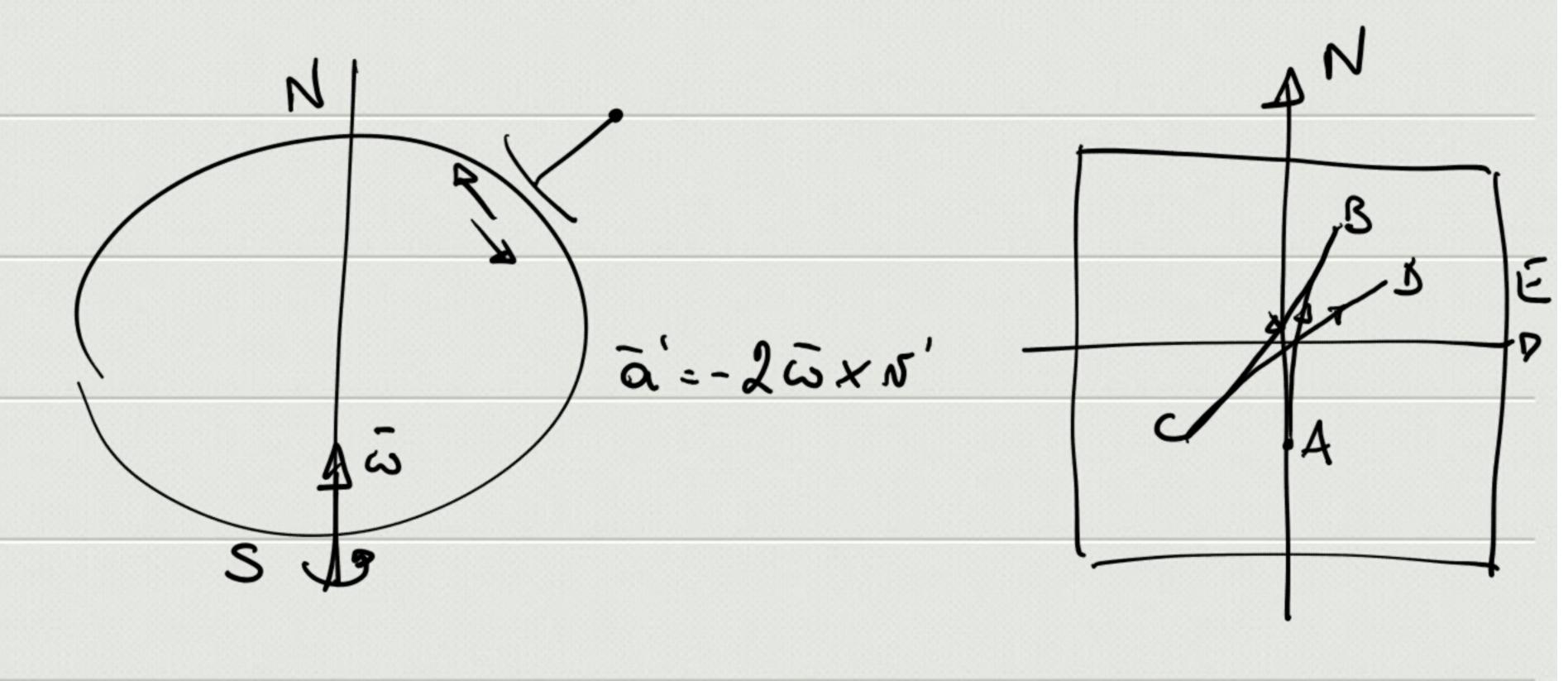
$$\overline{Q}' = \overline{Q}_{o}' = 0 \quad \Rightarrow \quad \overline{Q} = \overline{\omega} \times (\overline{\omega} \times \overline{\nu}') + 2\overline{\omega} \times \overline{\nu}'$$

$$\overline{Q}' = \overline{Q}_{o}' = 0 \quad \Rightarrow \quad \overline{Q} = \overline{\omega} \times (\overline{\omega} \times \overline{\nu}') + 2\overline{\omega} \times \overline{\nu}'$$

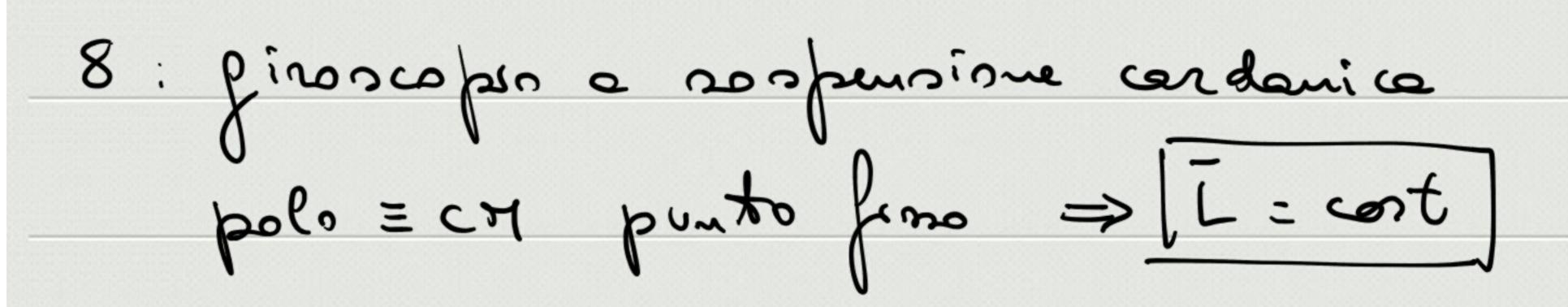
$$\overline{Q}' = \overline{Q}_{o}' = 0 \quad \Rightarrow \quad \overline{Q} = \overline{\omega} \times (\overline{\omega} \times \overline{\nu}') + 2\overline{\omega} \times \overline{\nu}'$$

$$\overline{Q}' = \overline{Q}_{o}' = 0 \quad \Rightarrow \quad \overline{Q} = \overline{\omega} \times (\overline{\omega} \times \overline{\nu}') + 2\overline{\omega} \times \overline{\nu}'$$

7.1: Pendolo di Forcoult (modelle)



7.2 : Pendolo di Foucault



$$\frac{\widehat{R}}{\widehat{R}} = \widehat{R} \times \widehat{R} \times \widehat{R} = \widehat{R} \times \widehat{R}$$

10.1: conserversone del momento angolere. L= cost Sistema isoloto: L= I w = cost

$$I, \omega, = I_2 \omega_2 \Rightarrow \omega_2 = \frac{I_1}{I_2} \omega$$

$$10.2: \overline{L} = cost$$

$$\overline{L}_{i}$$

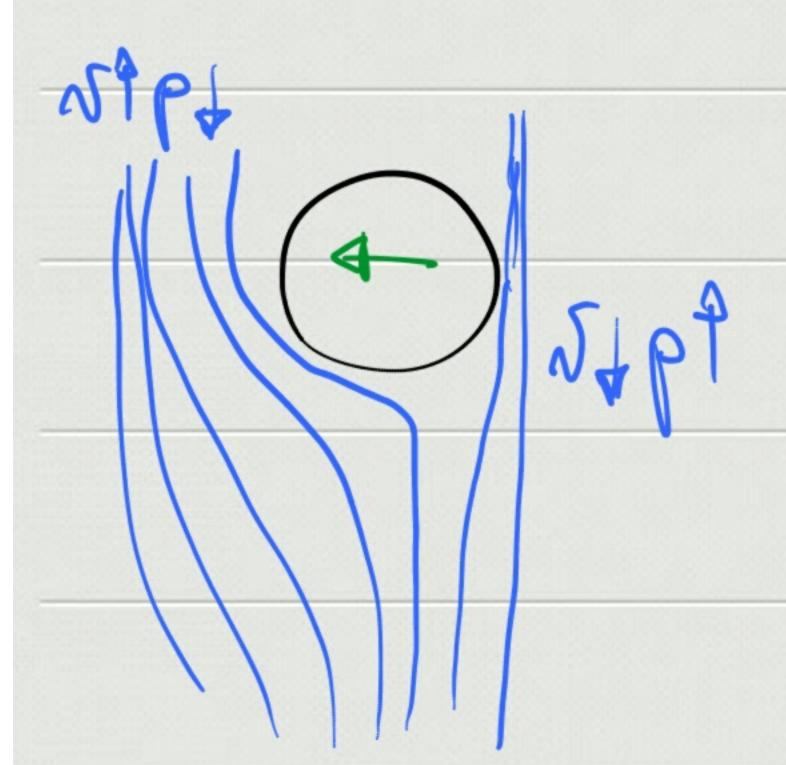
$$\overline{L}_{i}$$

Mr: paradomo idrodinamico:

depressione quendo si viduce la sessore

del tras di flumo

13: Bernoulli : p+pg++ = p5² = cost



14: Effetts Megnus