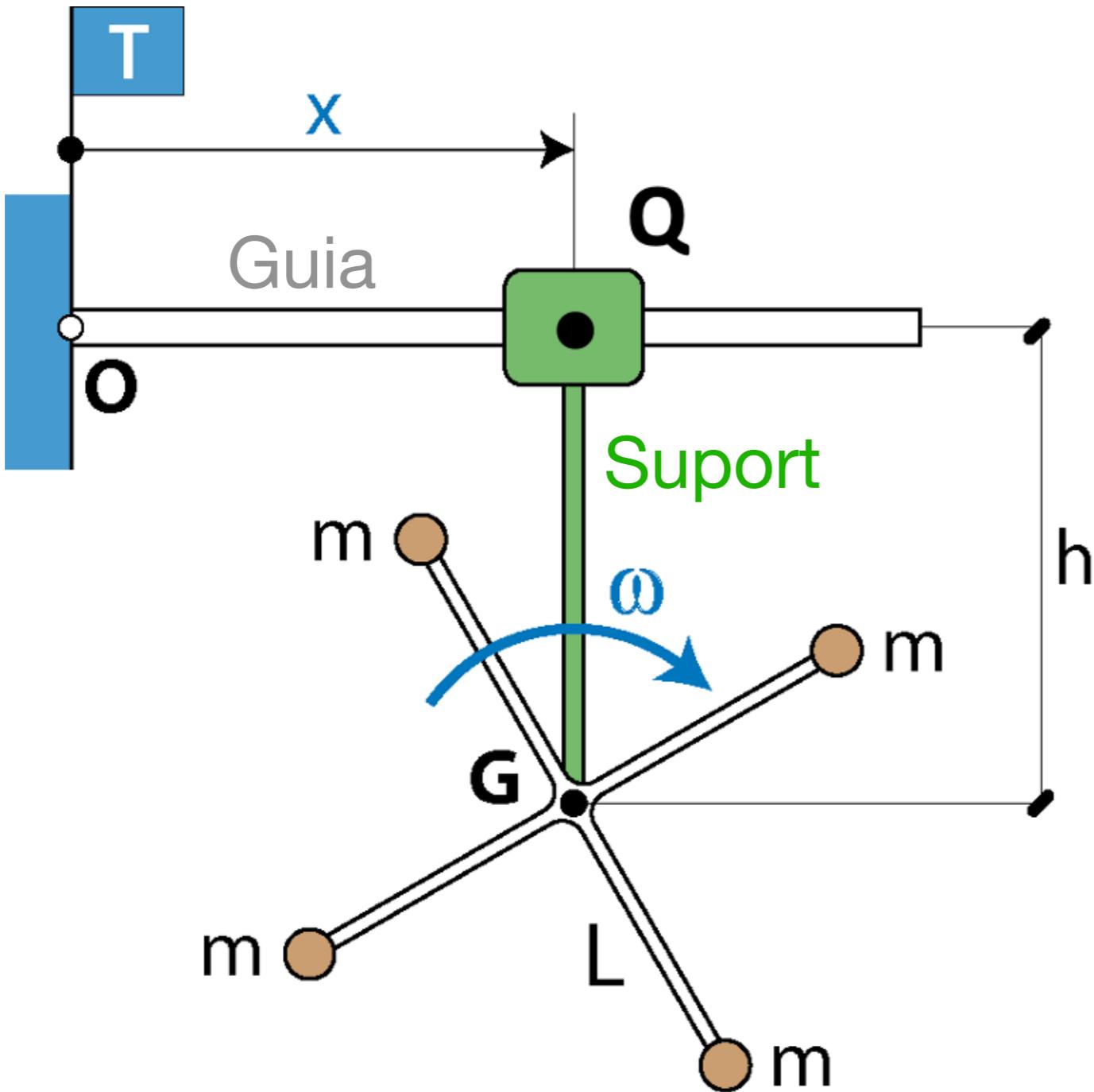


11P

Teoremes vectorials I

Exercicis de càcul del moment cinètic

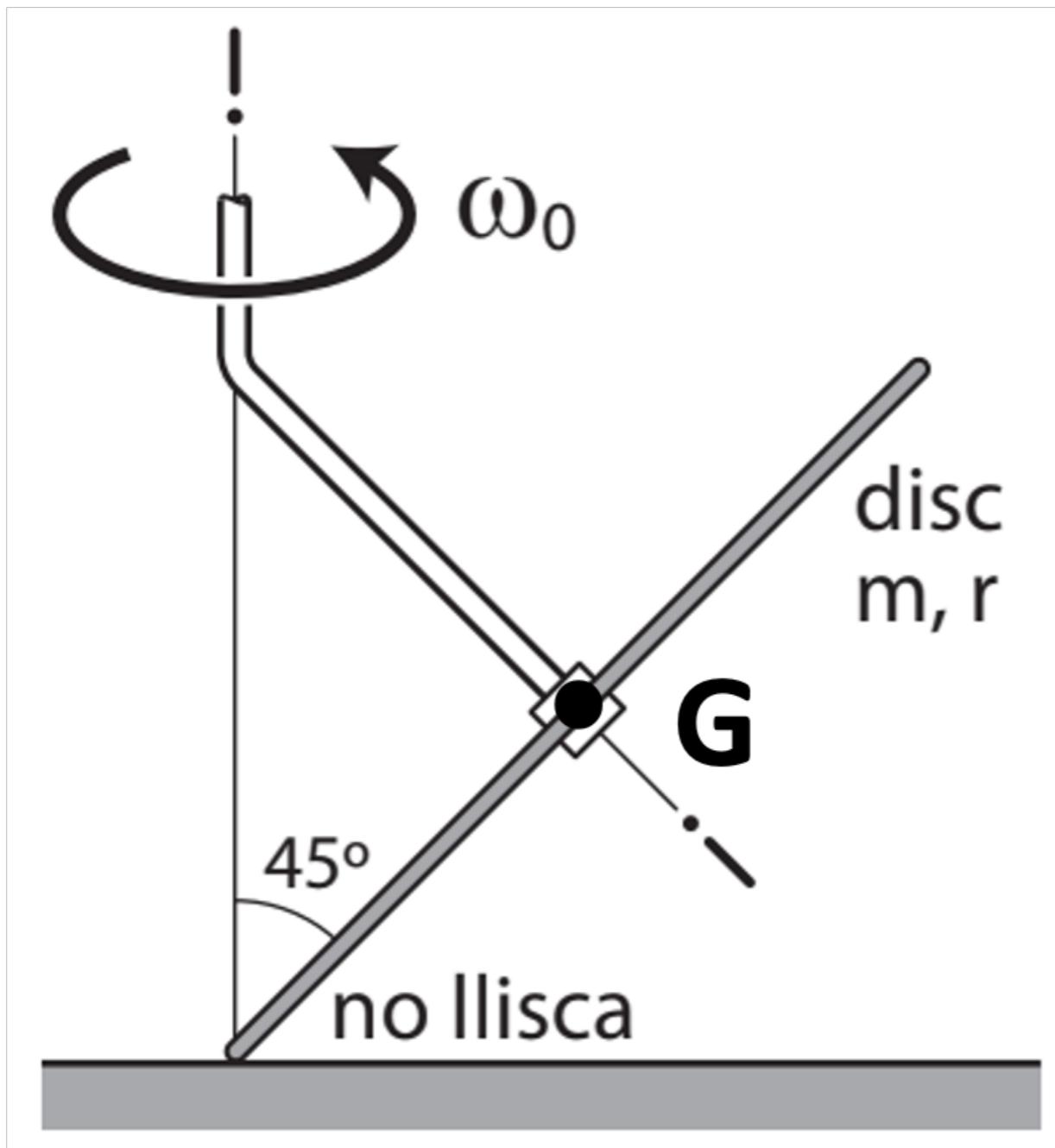
Problema 3D



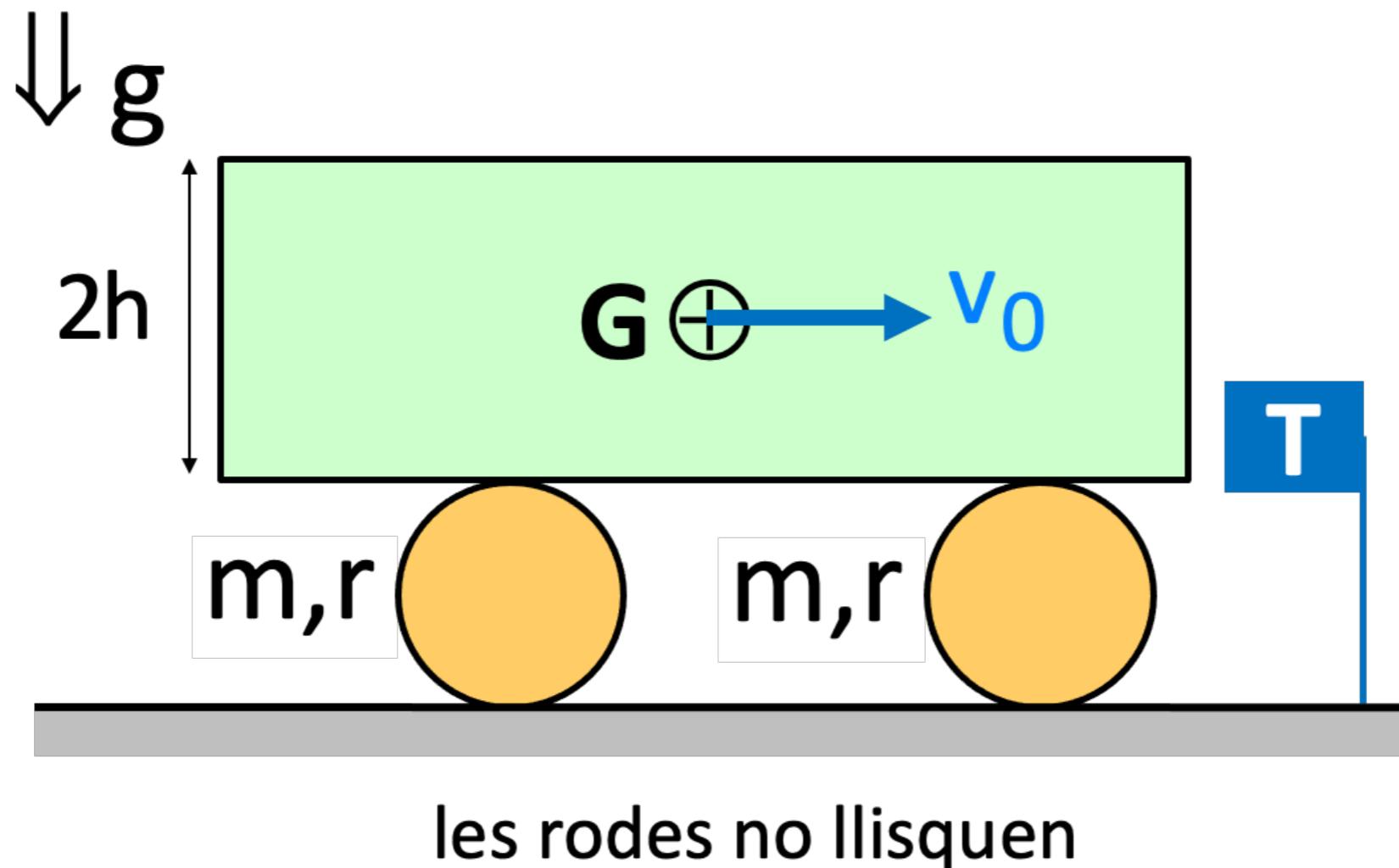
$\bar{H}_{RTQ}(Q)?$
 $\bar{H}_{RTO}(O)?$

Només les 4 masses puntuals són de massa no negligible

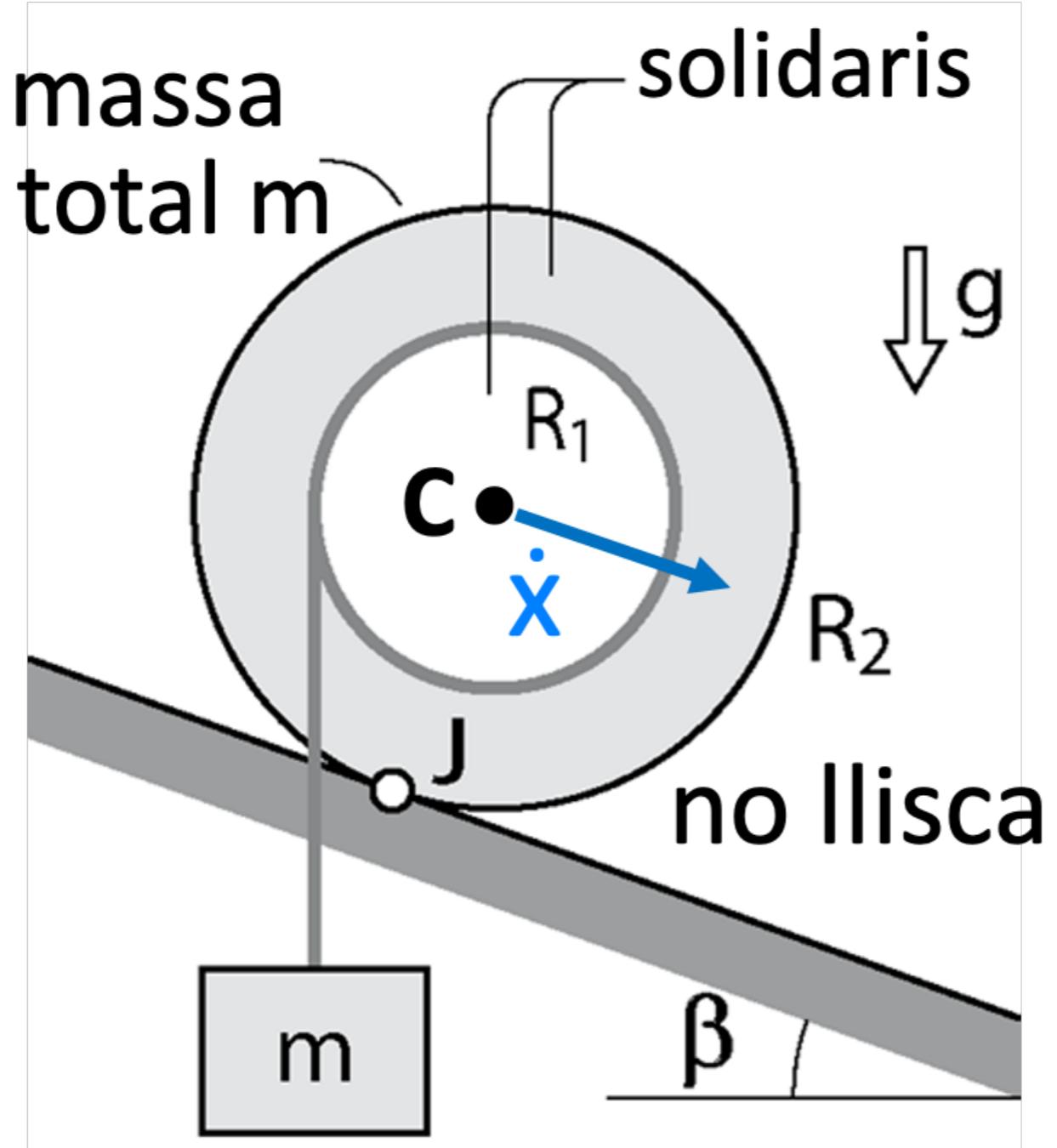
$\bar{H}_{RTG}(G) ?$



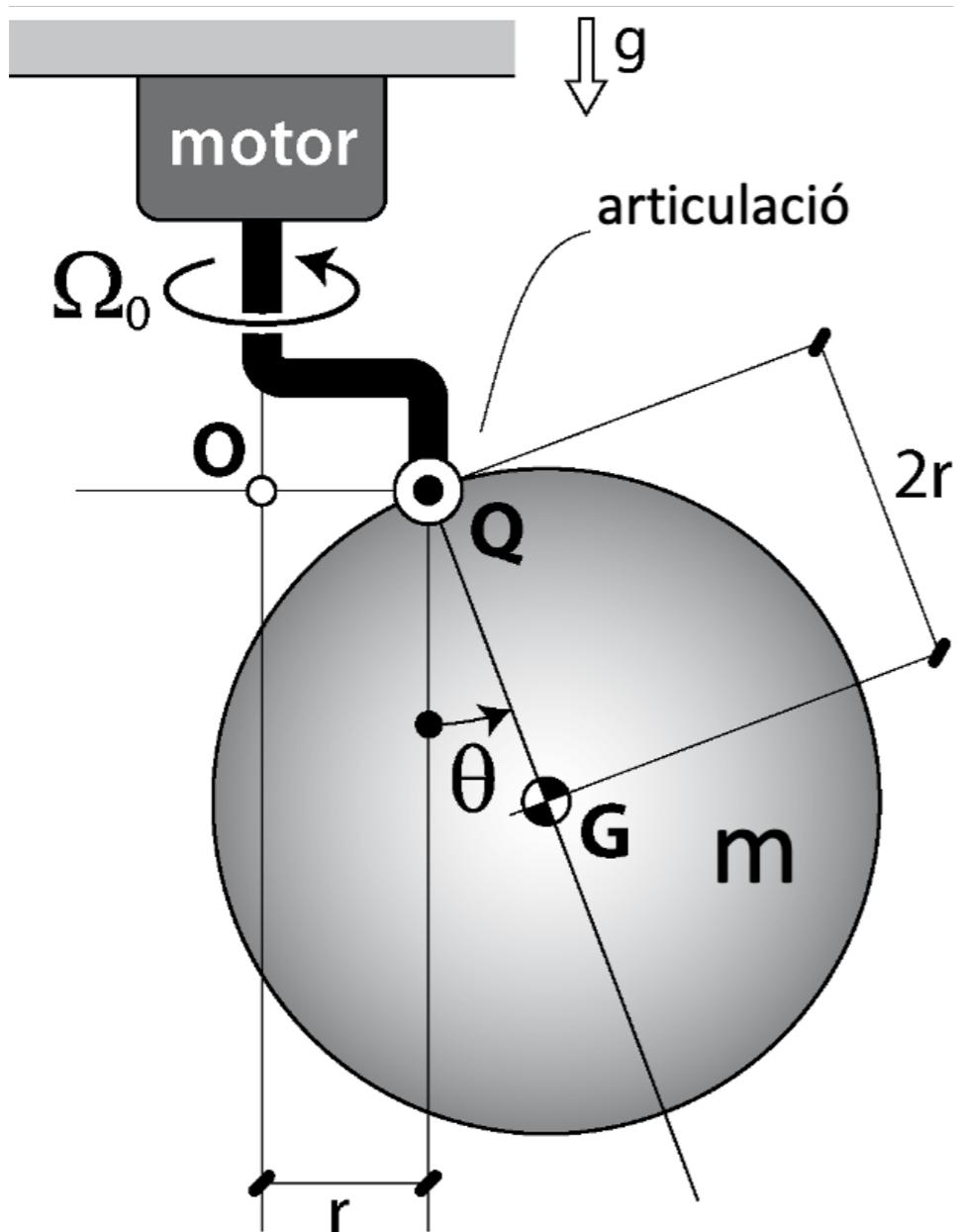
$\bar{H}_{RTG}(G)$?



$$\bar{H}_{RTC}(c) ?$$

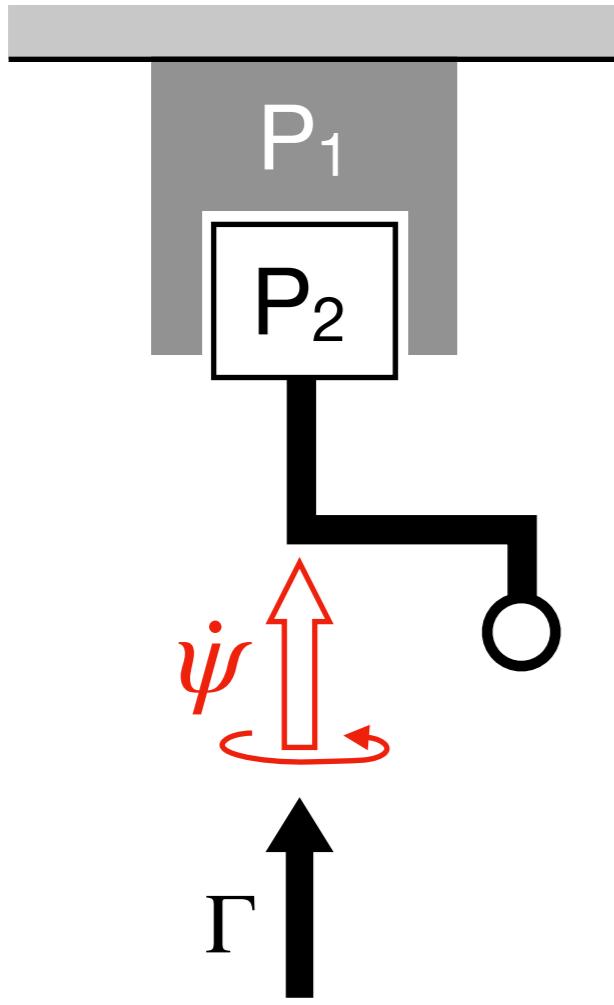


Pèndol esfèric giratori



- Eq. mov. per a θ ?
- Parell motor que garanteix Ω_0 ?

Tractament de motors

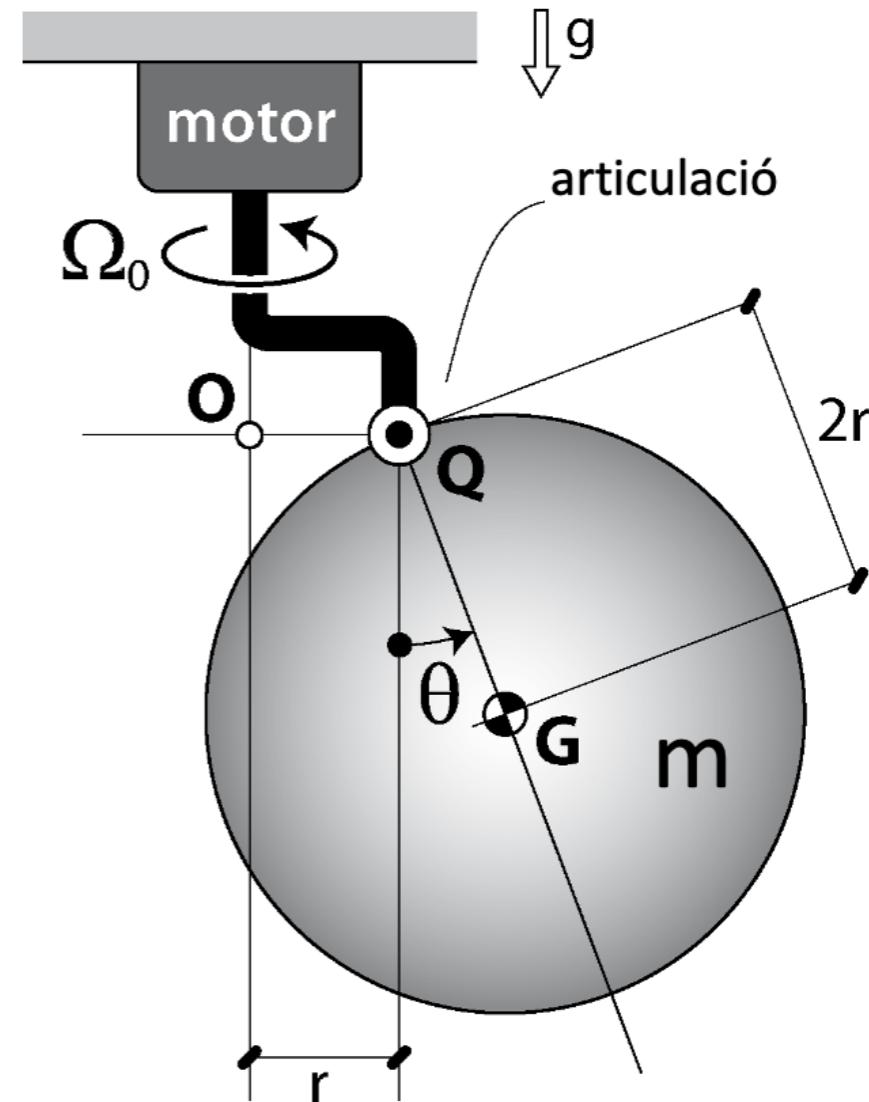


En general

En un motor:

O bé sabrem Γ , i $\dot{\psi}$ serà incògnita

O bé sabrem $\dot{\psi}$, i Γ serà incògnita

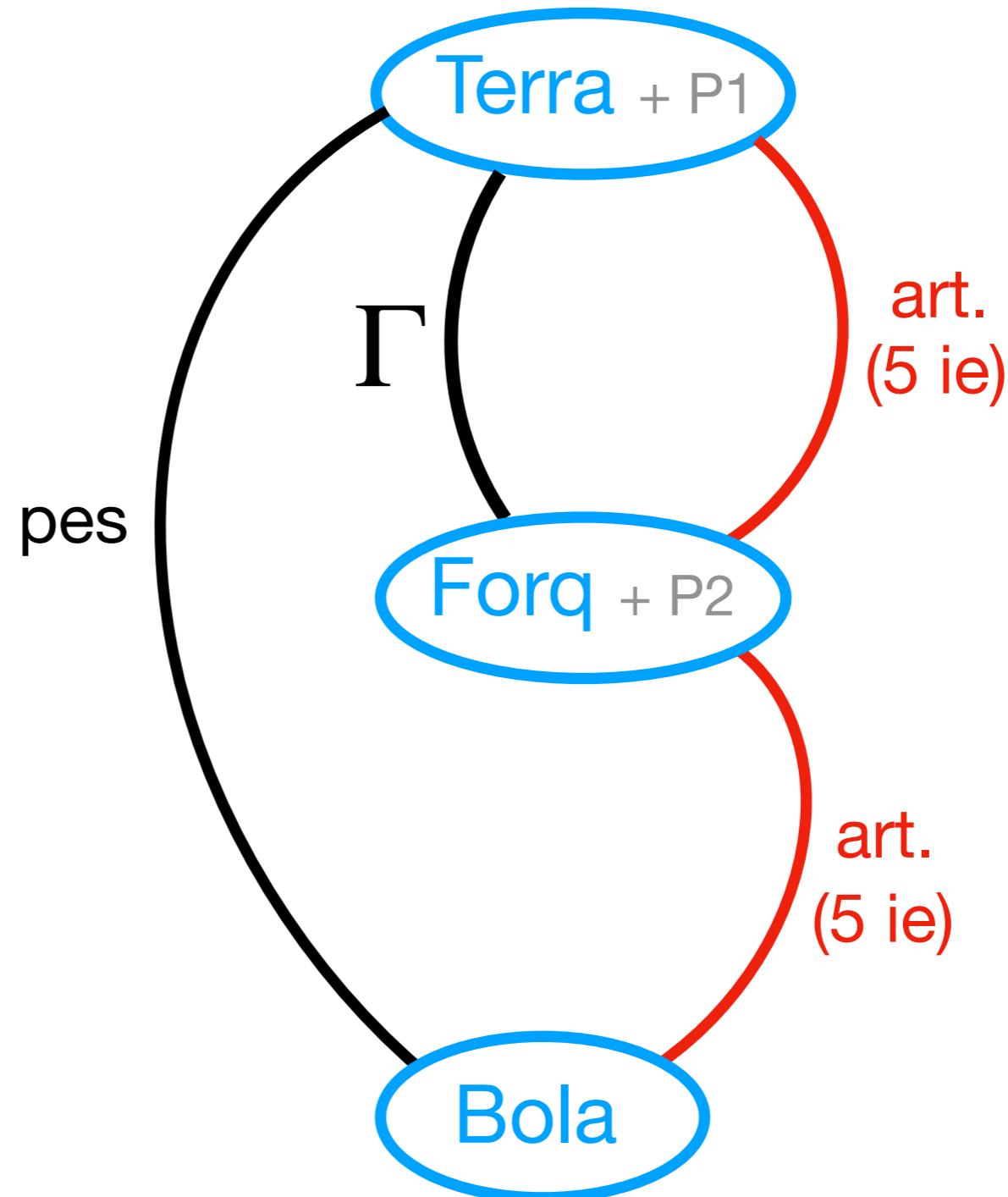
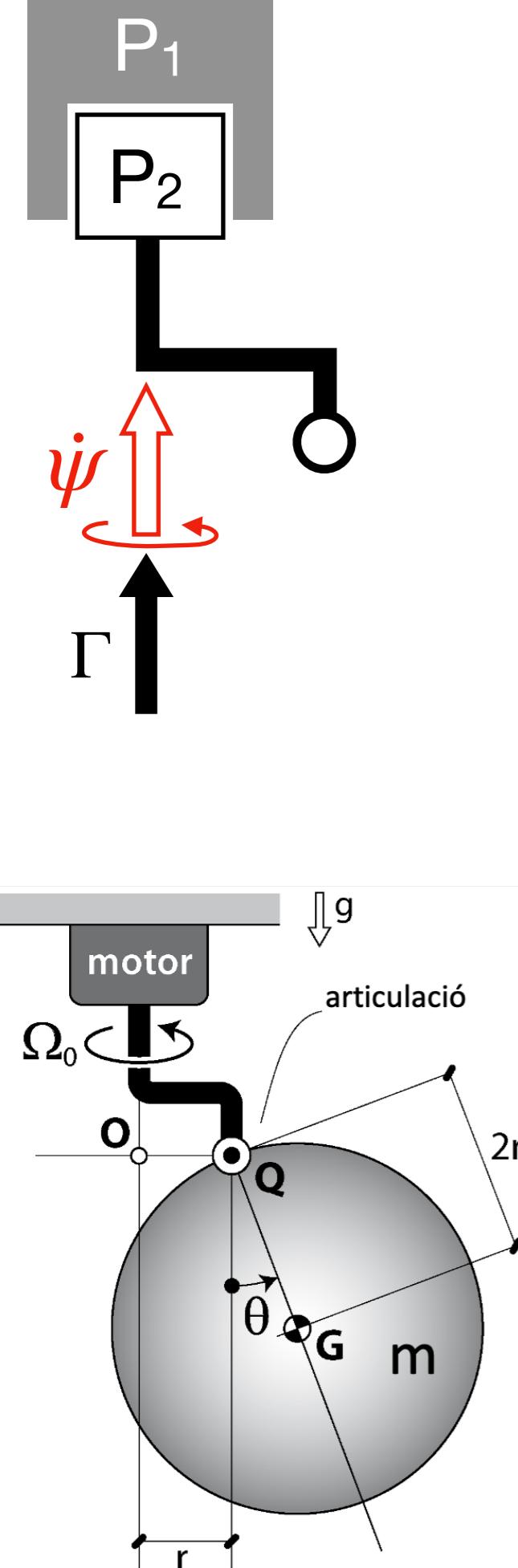


En aquest exercici

$$\dot{\psi} = \Omega_0 \Rightarrow \ddot{\psi} = 0 \text{ (coneguda)}$$

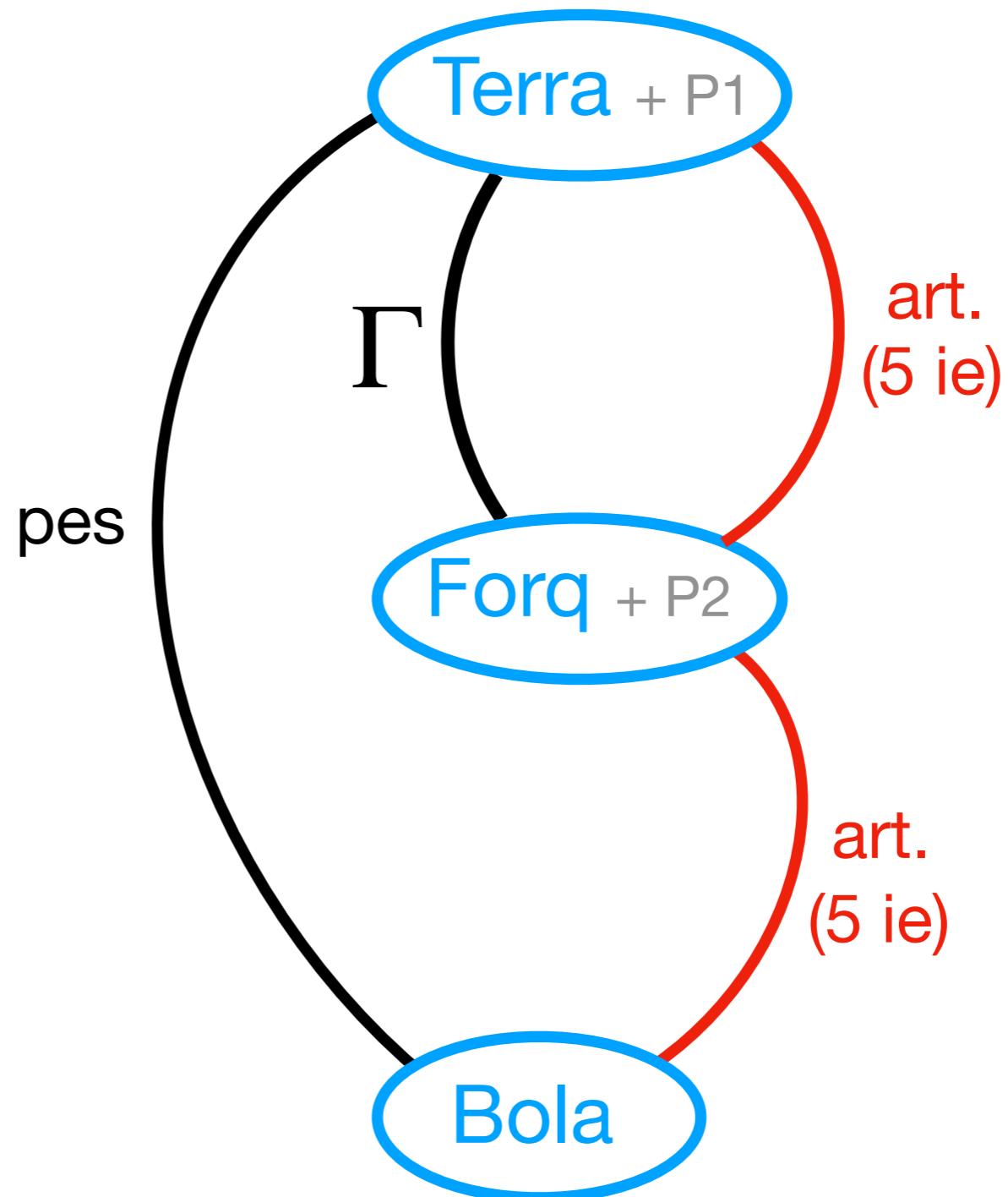
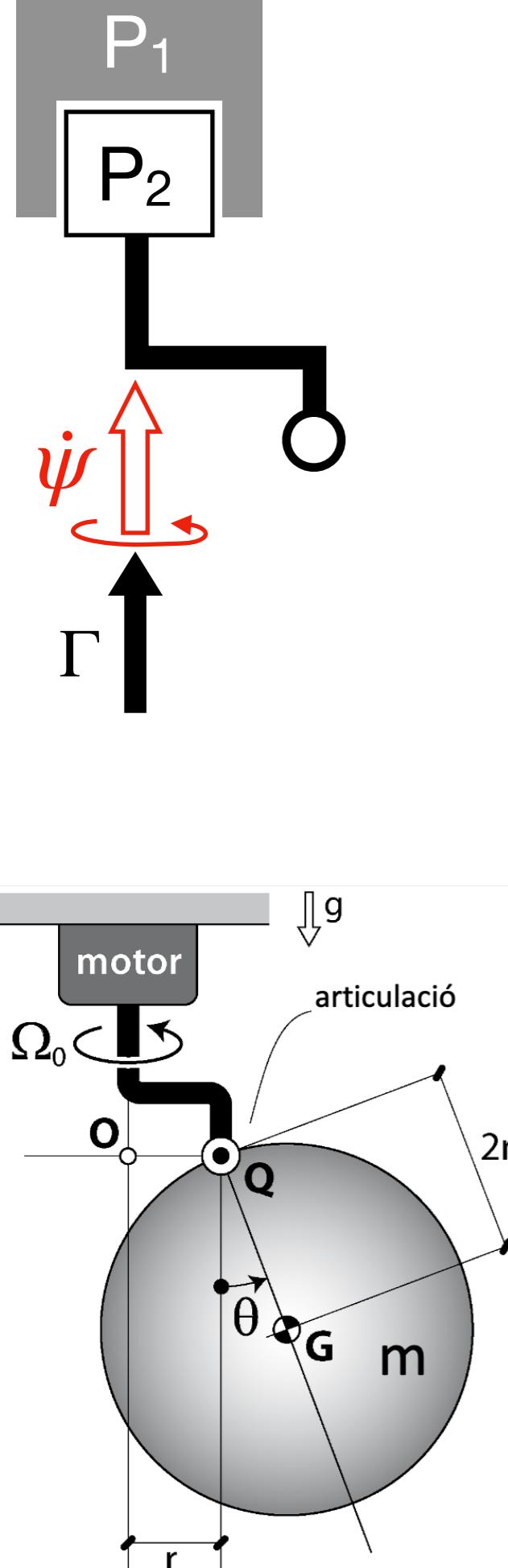
Γ serà incògnita

Diagrama general d'interaccions

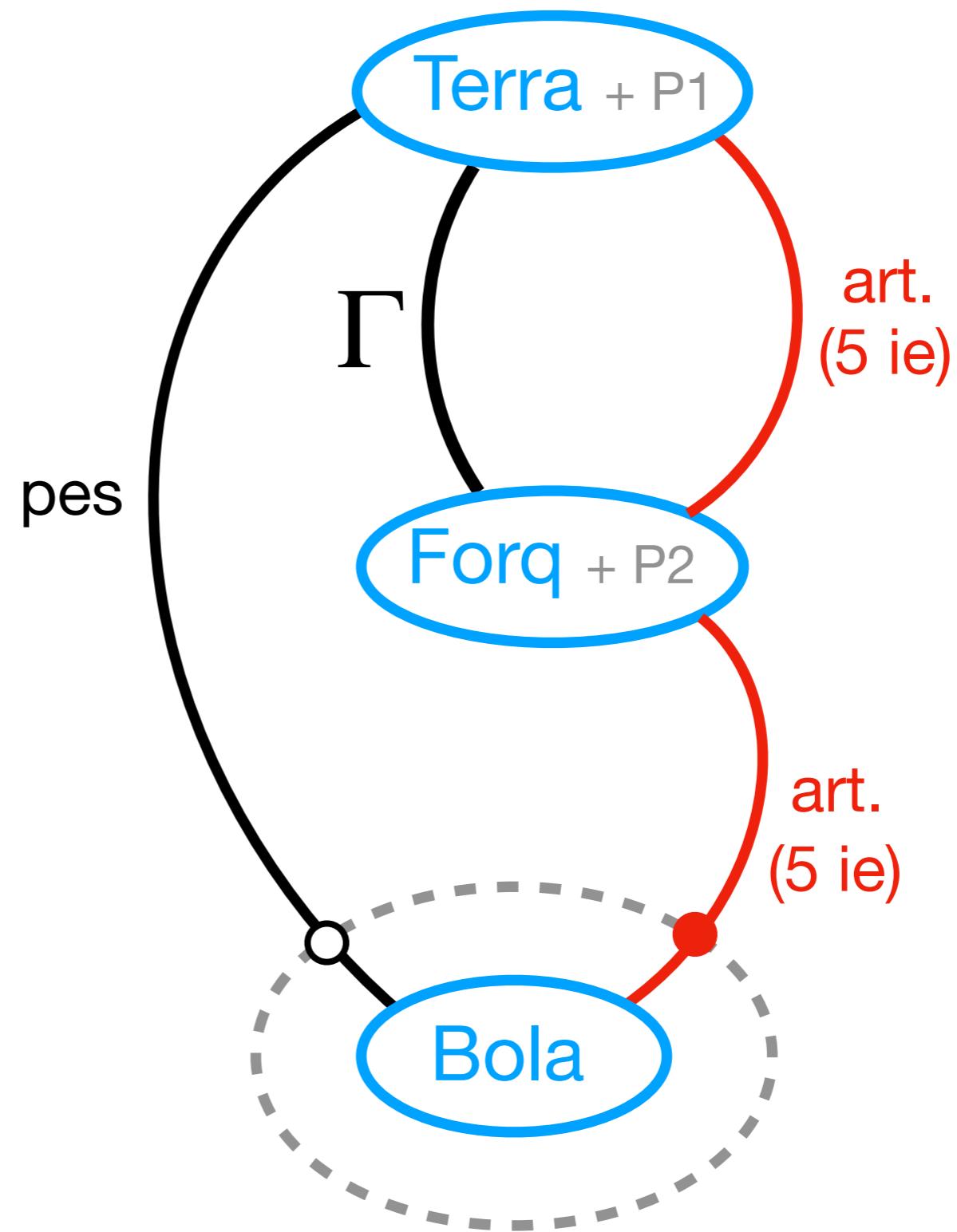
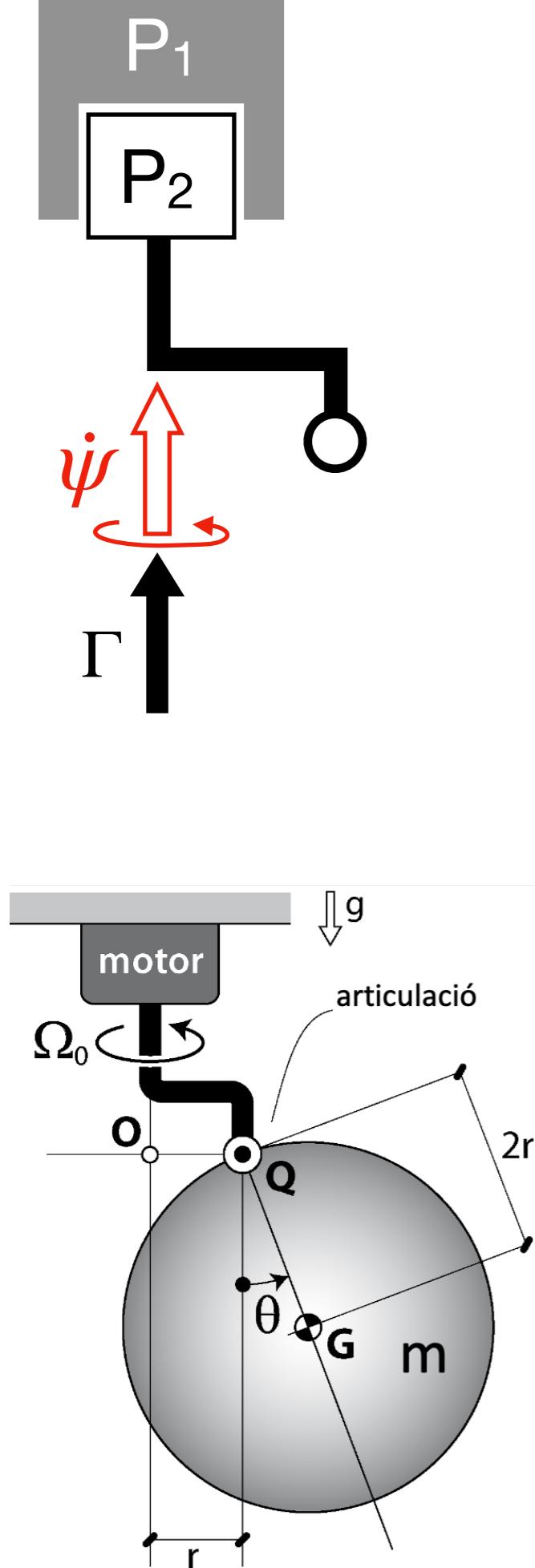


Problema dinàmic global

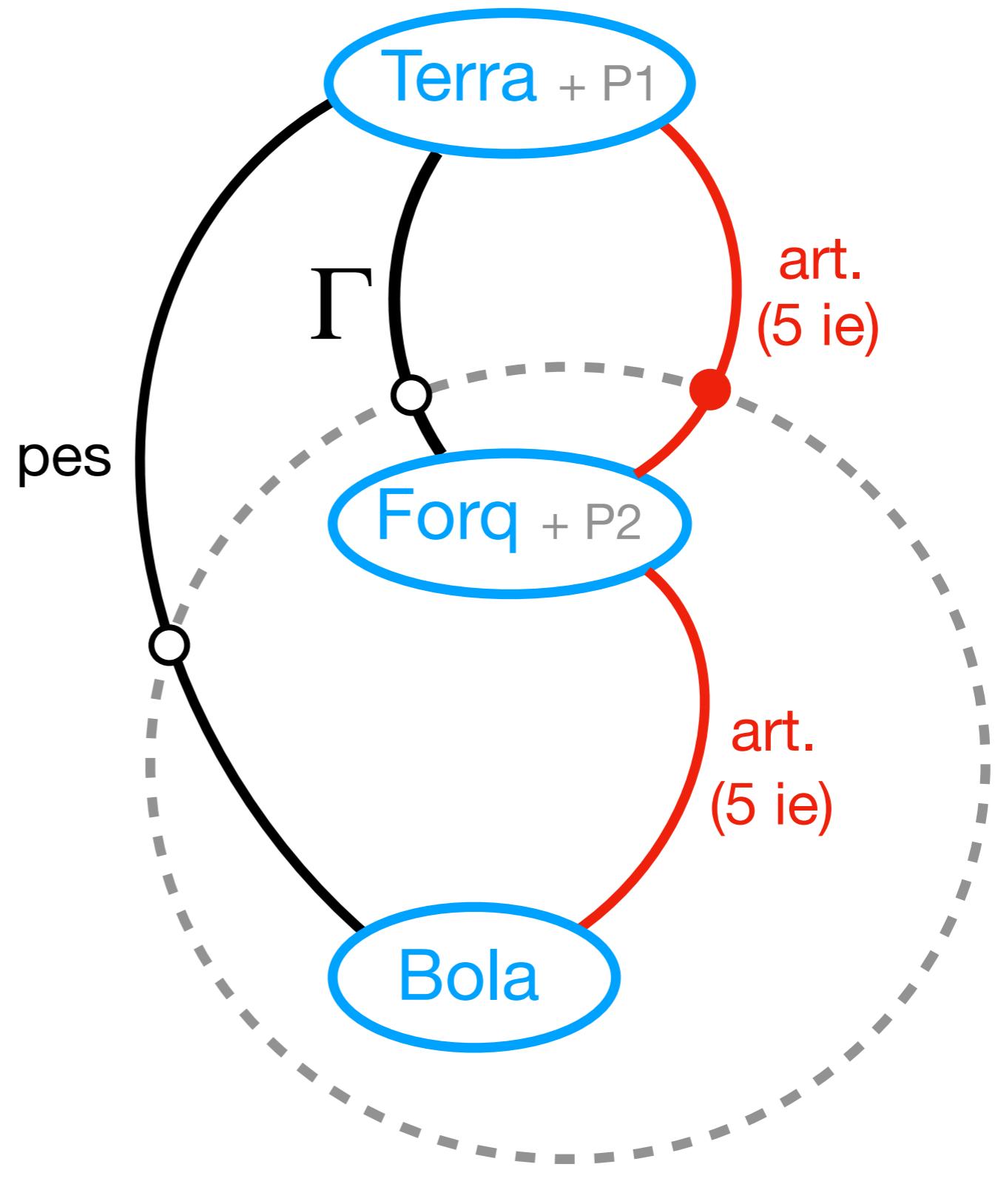
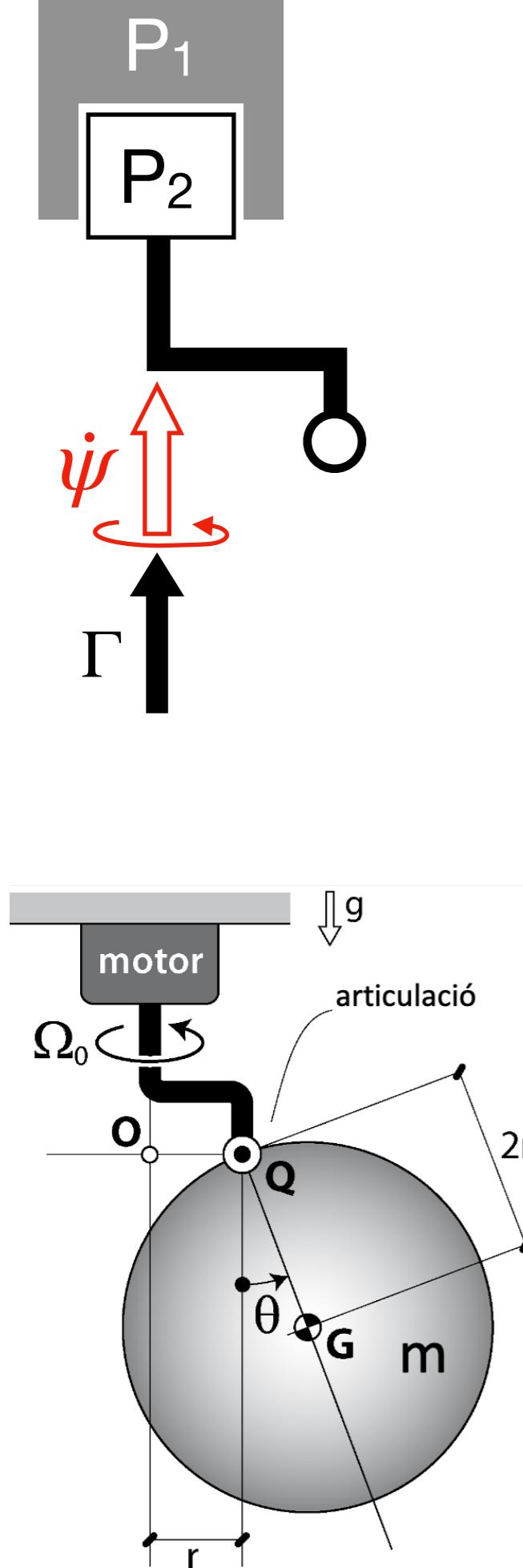
12 incògnites i 12 equacions



Sistema = Bola



Sistema = Bola + Forq



Sistema = Forq

