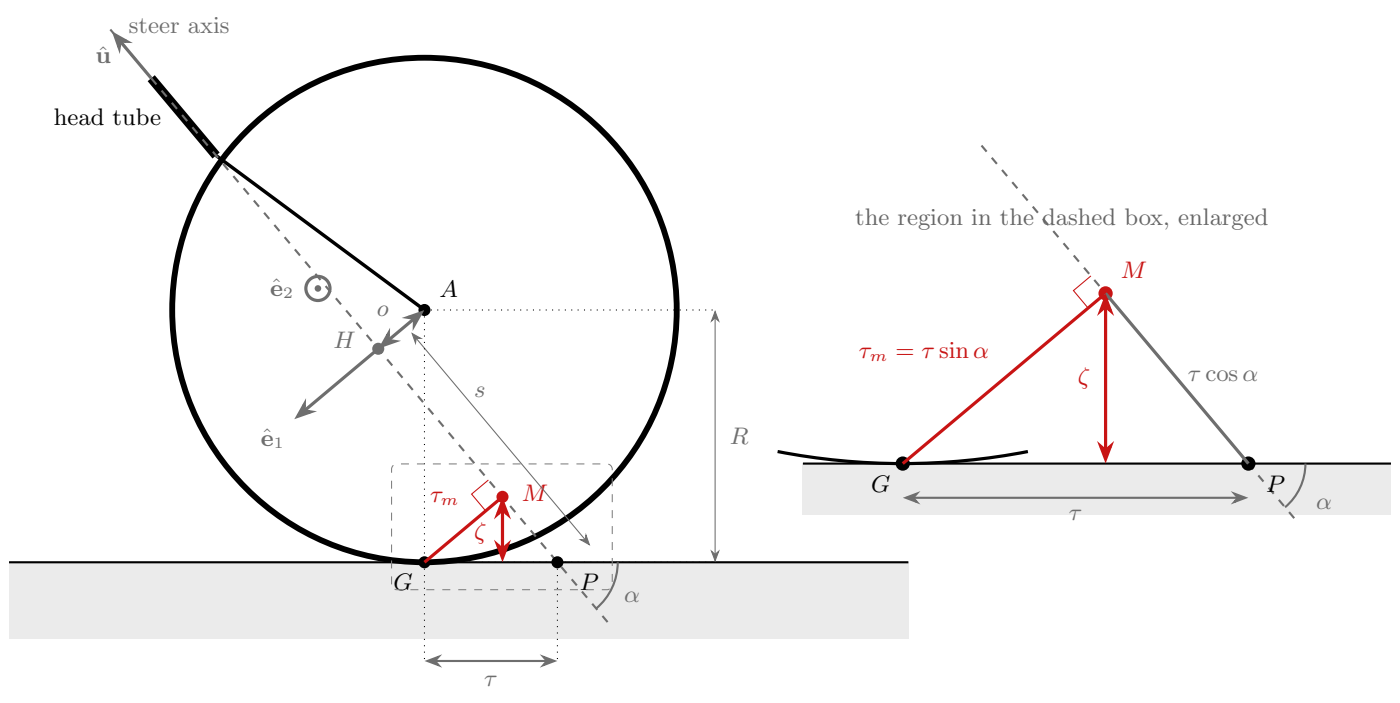

steer axis
$\hat{\mathbf{u}}$
head tube
$\hat{\mathbf{e}}_2$
A
o
H
$\hat{\mathbf{e}}_1$
s
R
τ_m
M
ζ
G
P
α
τ
the region in the dashed box, enlarged
M
$\tau_m = \tau \sin\alpha$
ζ
$\tau \cos\alpha$
G
P
τ
α