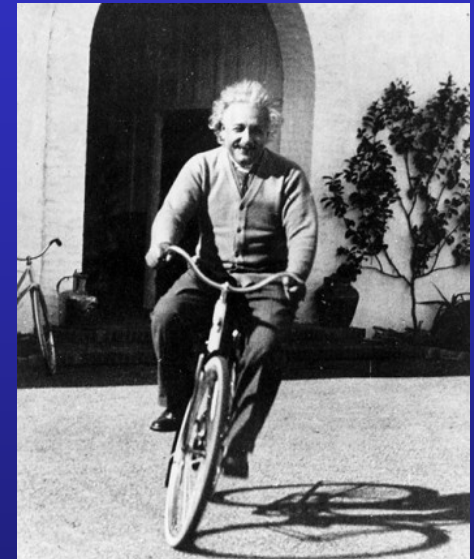


Classical Mechanics

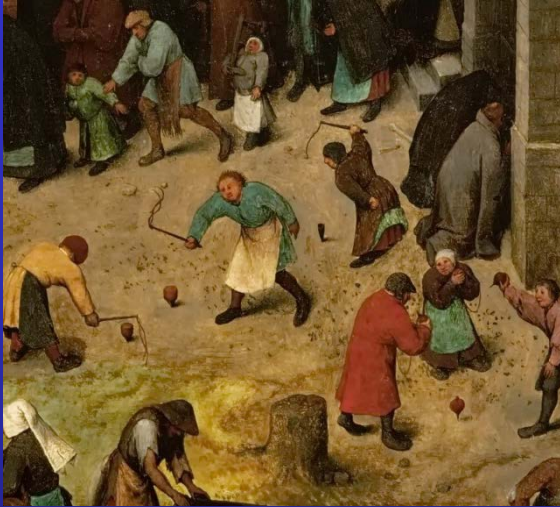
PHYS 2006

Tim Freegarde



The Fight between Carnival and Lent

Pieter Bruegel the Elder (1559)



Kunsthistorisches Museum, Vienna

Children's games

Pieter Bruegel the Elder (1560)



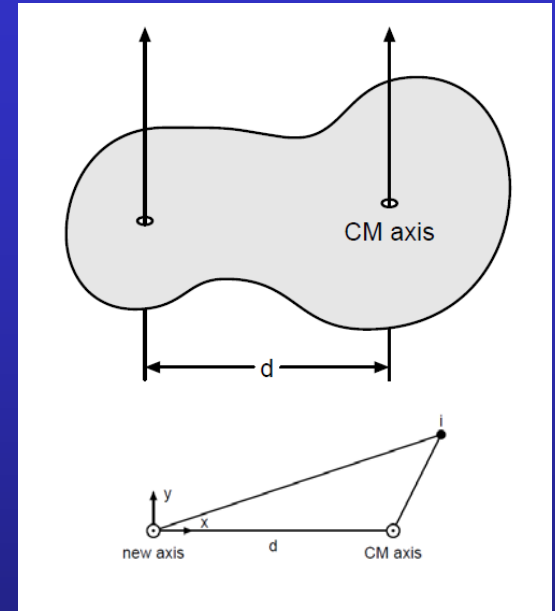
Kunsthistorisches Museum, Vienna

Two theorems on moments of inertia

PARALLEL AXIS THEOREM

- when rotation axis is displaced from centre of mass

$$I = I_{\text{CM}} + Md^2$$



PERPENDICULAR AXIS THEOREM

- for thin flat plates of arbitrary shapes

$$I_z = I_x + I_y$$

