

3.12

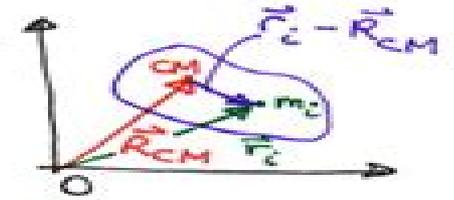
MH

K-H

10.6

### 3.8 Classical spin - angular momentum about the CM

For a system of masses (discrete or continuous) we can define total angular momentum w.r.t.  $O$  as



$$\vec{L}_O = \sum_i \vec{r}_i \times \vec{p}_i = \sum_i m_i (\vec{r}_i \times \vec{v}_i) \quad \vec{L}_O \text{ changes with } O!$$

$$\vec{R}_{CM} := \frac{1}{M} \sum_i m_i \vec{r}_i \quad , \quad \text{where } M = \sum_i m_i$$

now add to  $\vec{L}_O$  a zero  $0 = \sum_i m_i (\vec{R}_{CM} \times \vec{v}_i) - \sum_i m_i (\vec{R}_{CM} \times \vec{v}_i)$

$$\vec{L}_O = \underbrace{\sum_i (\vec{r}_i - \vec{R}_{CM}) \times \vec{p}_i}_{\vec{L}_{tot} \text{ w.r.t. } \vec{R}_{CM}} + \underbrace{\sum_i \vec{R}_{CM} \times \vec{p}_i}_{= \vec{R}_{CM} \times \sum_i \vec{p}_i = \vec{R}_{CM} \times \vec{P}} = \vec{L}_{CM} + \vec{R}_{CM} \times \vec{P}$$

Angular momentum about  $O$  = angular momentum about CM + angular momentum of CM about  $O$ .

$\vec{L}_{CM} := \sum_i (\vec{r}_i - \vec{R}_{CM}) \times \vec{p}_i$  is the intrinsic angular momentum or classical spin of the body.

No external torques on CM  $\Rightarrow \frac{d}{dt} \vec{L}_{CM} = 0$

or:  $\frac{d}{dt} \vec{L}_{CM} = \vec{N}_{CM}^{ext}$

The CM provides a natural reference system for calculating angular momentum and torque in an N-body object.

Application: Earth's rotation axis points currently towards the North star (polar star). This axis, however, sweeps out a cone with  $23.5^\circ$  opening angle, and period 25,800 years. Implication: External forces generate a precession.

# Assignment Classical Mechanics Solution

**O. L. de Lange, J. Pierrus**



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