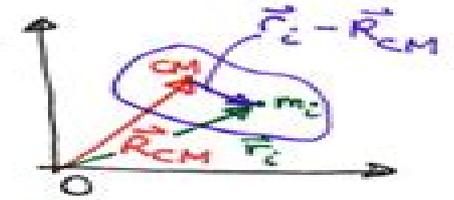## 3.8 Classical spin – angular momentum about the CM

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

$$\vec{L}_O = \sum_i \vec{r}_i \times \vec{P}_i = \sum_i m_i (\vec{r}_i \times \vec{v}_i).$$

$\vec{L}_O$ changes with O!

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

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

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

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

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

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° opening angle, and period 25,800 years. Implication: External forces generate a precession.

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