

Classical angular momentum

For a classical particle, the angular momentum is defined by

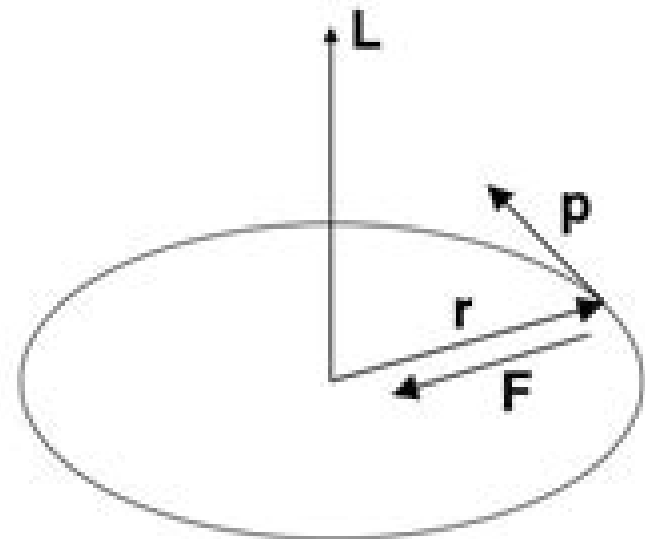
$$\begin{aligned}\mathbf{L} &= \mathbf{r} \times \mathbf{p} \\ &= L_x \mathbf{i} + L_y \mathbf{j} + L_z \mathbf{k}\end{aligned}$$

In components

$$L_x = yp_z - zp_y$$

$$L_y = zp_x - xp_z$$

$$L_z = xp_y - yp_x$$



Same origin for $\mathbf{r}$ and $\mathbf{F}$

Angular momentum is very important in problems involving a **central force** (one that is always directed towards or away from a central point) because in that case it is **conserved**

$$\begin{aligned}\frac{d\mathbf{L}}{dt} &= \frac{d}{dt}(\mathbf{r} \times \mathbf{p}) = \frac{d\mathbf{r}}{dt} \times \mathbf{p} + \mathbf{r} \times \frac{d\mathbf{p}}{dt} \\ &= \left(\frac{\mathbf{p}}{m} \times \mathbf{p}\right) + (\mathbf{r} \times \mathbf{F}) = 0.\end{aligned}$$

Angular Momentum In Quantum Mechanics

Michael Danos, Vincent Gillet



Angular Momentum In Quantum Mechanics:

Embark on a breathtaking journey through nature and adventure with is mesmerizing ebook, Witness the Wonders in **Angular Momentum In Quantum Mechanics** . This immersive experience, available for download in a PDF format (Download in PDF: *), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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