

CHAPTER 5 LAWS OF MOTION

Standard XI

POST 1

LAW OF CONSERVATION OF LINEAR MOMENTUM

When no external force acts on a system of several interacting particles, the total linear momentum of the system is conserved.

DERIVATION OF THE LAW OF CONSERVATION OF LINEAR MOMENTUM FROM NEWTON'S SECOND LAW OF MOTION

Consider an isolated system of 'n' particles. Suppose 'n' particles have masses $m_1, m_2, m_3, \dots, m_n$ and are moving with velocities $\vec{v}_1, \vec{v}_2, \vec{v}_3, \dots, \vec{v}_n$, respectively. The total linear momentum of the system is

$$\begin{aligned}\vec{P} &= m_1\vec{v}_1 + m_2\vec{v}_2 + m_3\vec{v}_3 + \dots + m_n\vec{v}_n \\ &= \vec{P}_1 + \vec{P}_2 + \vec{P}_3 + \dots + \vec{P}_n\end{aligned}$$

If F is the external force acting on the system, then according to Newton's second law,

$$\vec{F} = \frac{d\vec{P}}{dt}$$

For an isolated system,

$$\vec{F} = 0 \text{ or } \frac{d\vec{P}}{dt} = 0$$

As the derivative of constant is zero, therefore

$$\vec{P} = \text{constant}$$

$$\text{Or } \vec{P}_1 + \vec{P}_2 + \vec{P}_3 + \dots + \vec{P}_n = \text{constant}$$

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