

THE CONSERVATION OF LINEAR MOMENTUM

Introduction

In this experiment you will test the validity of the Law of Conservation of Linear Momentum in one dimension utilizing elastic and inelastic collisions on an air track.

Apparatus

Computer with Logger Pro software

Vernier Lab Pro box

Pasco Air Track

Air supply

Air Track Accessory kit - bumpers for the elastic collision

Air Track Gliders (2)

Vernier Photogate (2)

Ring Stands (2)

Right angle clamps (2) or integral photogate clamps

Laboratory Balance

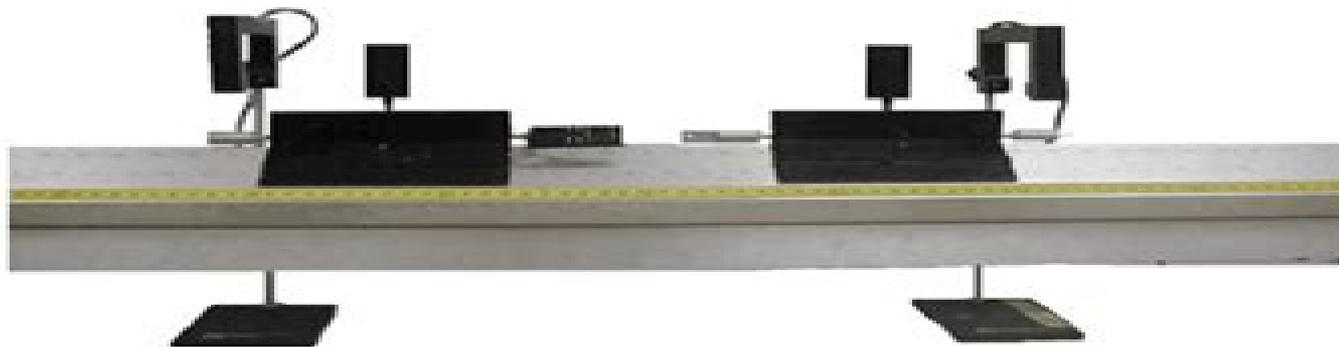


Figure 0: Elastic Near Collision

Theory

If two objects collide, and are subject to no net external forces, then it can be shown by application of Newton's 2nd and 3rd Laws that the total linear momentum of the system of masses will not be altered by the collision. The linear momentum of an object of mass m_1 and velocity v_1 is given by $p_1 = m_1 v_1$. In a system consisting of two objects of momentum p_1 and p_2 , the total linear momentum is the vector sum of their individual momenta:

$$\mathbf{p}_1 + \mathbf{p}_2 = m_1 \mathbf{v}_1 + m_2 \mathbf{v}_2$$

The total linear momentum *before* collision is $m_1 v_1 + m_2 v_2$

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Greg Jacobs



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