

## LAB - COLLISIONS

- % Error =  $\left| \frac{\text{predicted } v_f - \text{measured } v_f}{\text{predicted } v_f} \right| (100\%)$
- Impulse =  $\Delta p$
- Collision types:
  - $\phi = p_{f1} + p_{f2} = m_1 v_{f1} + m_2 v_{f2}$
  - $m_1 v_{1i} = (m_1 + m_2) v_f$
  - $m_1 v_{1i} = m_1 v_{1f} + m_2 v_{2f}$
  - $m_1 v_{1i} + m_2 v_{2i} = (m_1 + m_2) v_f$