Collision Lab Shared Data

Car 1: Ruby Red channel/detector 1 Mass = 0.985 kg

Car 2 Hershey Blue channel/detector 2 Mass = 1.348 kg

We found that the irregular shapes of the "guinea pig tanks" made data collection of the motion of the tanks very noisy. So we added flat pieces of paper to each end of the tank so that the motion detector had a flat and perpendicular surface to bounce sound from

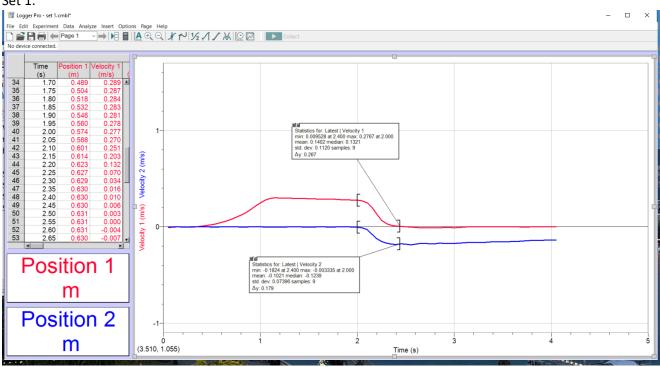
Set 1: Elastic. Ruby is initially at rest. Hershey almost stops after the collision.

Set 2: Elastic. Head-on (both pigs have initial velocity). Hershey again almost stops after the collision.

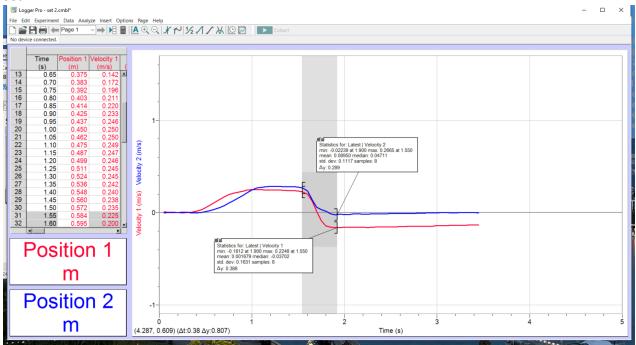
Set 3: Inelastic. Ruby is initially at rest.

Set 4: Inelastic. Hershey is initially at rest.

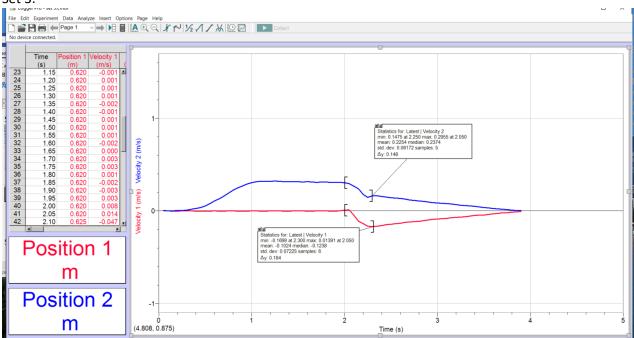




Set 2:



Set 3:



Set 4:

