Newton's second law / Air track or Demonstration track 1.3.03-01/05

Principle:
The distance-time law, the velocity-time law, and the relationship between mass, acceleration and force are determined with the aid of the air track rail for uniformly accelerated motion in a straight line.

Tasks:
1. Distance travelled as a function of time
2. Velocity as a function of time
3. Acceleration as a function of the accelerated mass
4. Acceleration as a function of force.

What you can learn about ...
- Velocity
- Acceleration
- Force
- Acceleration of gravity

The distance travelled $s$ plotted as a function of the time $t$;
$m_1 = 10$ g, $m_2 = 201$ g.

You can find more experiments in experimental literature
“Linear Motion” Order No. 16001.02 (see page 84)

Complete Equipment Set, Manual on CD-ROM included