

# Galileo's Problem

**t fixed**

**(x,y)**

**D=2R**

**(0,R)**

**R**

**$\theta$**

$$2R = \frac{g}{2} t^2$$

Consider a set of inclined planes for all of which an object rolls down in the same time  $t$ . Galileo deduced that aligning all such planes at their bottom then their tops fall along a circle. The slopes of the planes form the cords of the circle.

**Prove Galileo's proposition.**

