## Hyperbolic slot

## Do you manage to let the stick go through the slot?



Schwenke den Stab im Kreis.

The stick goes through the slot easily. As it swings, the stick sweeps out a shape in the air that is like a cylinder squashed in the middle. The slot here is a hyperbola (Fig. 1). That's why the stick passes through the slot.

The shape swept out by the stick is called a hyperboloid (Fig. 1). The silhouette of a hyperboloid is called a hyperbola.


Fig.1:The sides of this shape are made entirely of straight lines, but the outline is a curve - a hyperbola.

