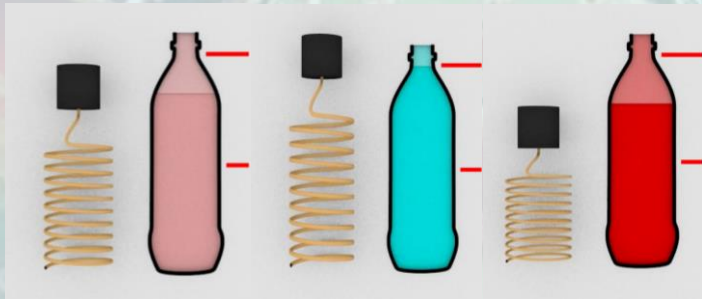


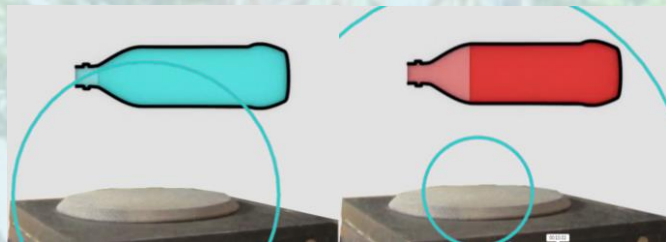
# The Bottle Carousel

## What is happening ?!

Resonance frequency of a bottle



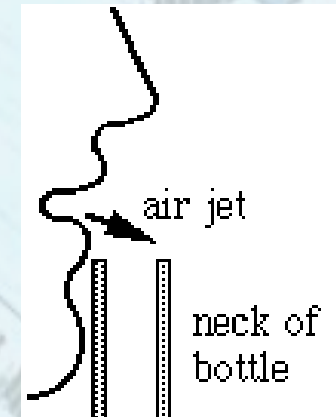
Exciting at the resonance frequency



Causing in and outflow of the air!

## Flow – Sound Interaction

Blowing over a bottle and creating sound



## Sound – Flow Interaction

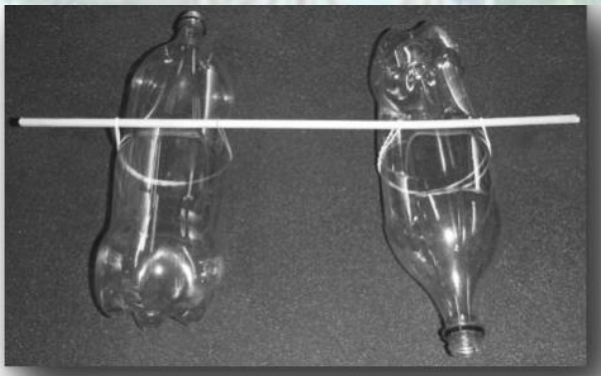
Making sound and creating a flow in and out of the bottle



# The Bottle Carousel

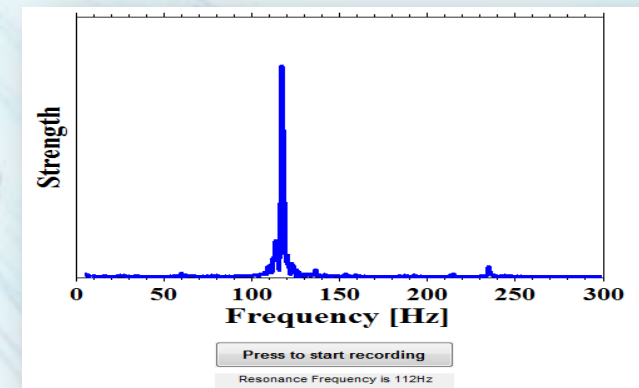
## The Carousel

- A stick with length 50-70cm
- Rubber bands
- Two 1.5 L PET bottles
- Sound excitation (Loud Speaker)
- Thin thread



## The Experiment

1. Determine resonance frequency of the bottle.



2. Set excitation of the loudspeaker to the resonance frequency
3. See what happens!