

# Wind tunnel

Team 05

# 1 Introduction

- ▶ Wind tunnel is the device that check air resistance. These were often used for the study about wind.



## 2 purpose

- ▶ Wind tunnel is very expensive.  
So we want to make it as cheap as possible.

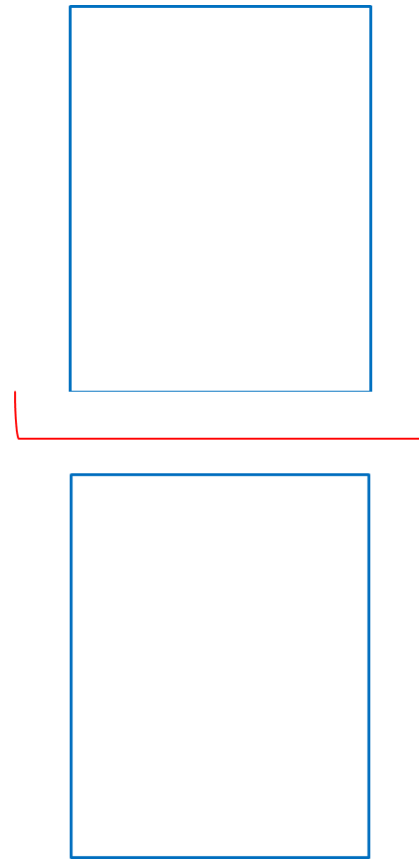
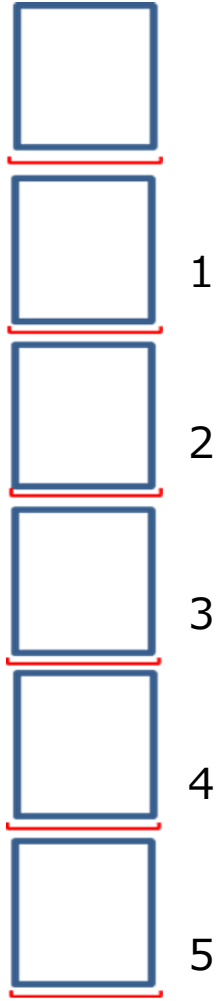
## 3 experiment

We designed three types of devices.

- ▶ 1. Device made of straw,
- ▶ 2. Device made of mesh,
- ▶ 3. Device without rectifiers.

Each device that connects six plastic tubes, a rectifier(6mm diameter straw, mesh), wire with thread.

We put a wire in the device, hung three threads, and verified how much the thread moved by the wind.

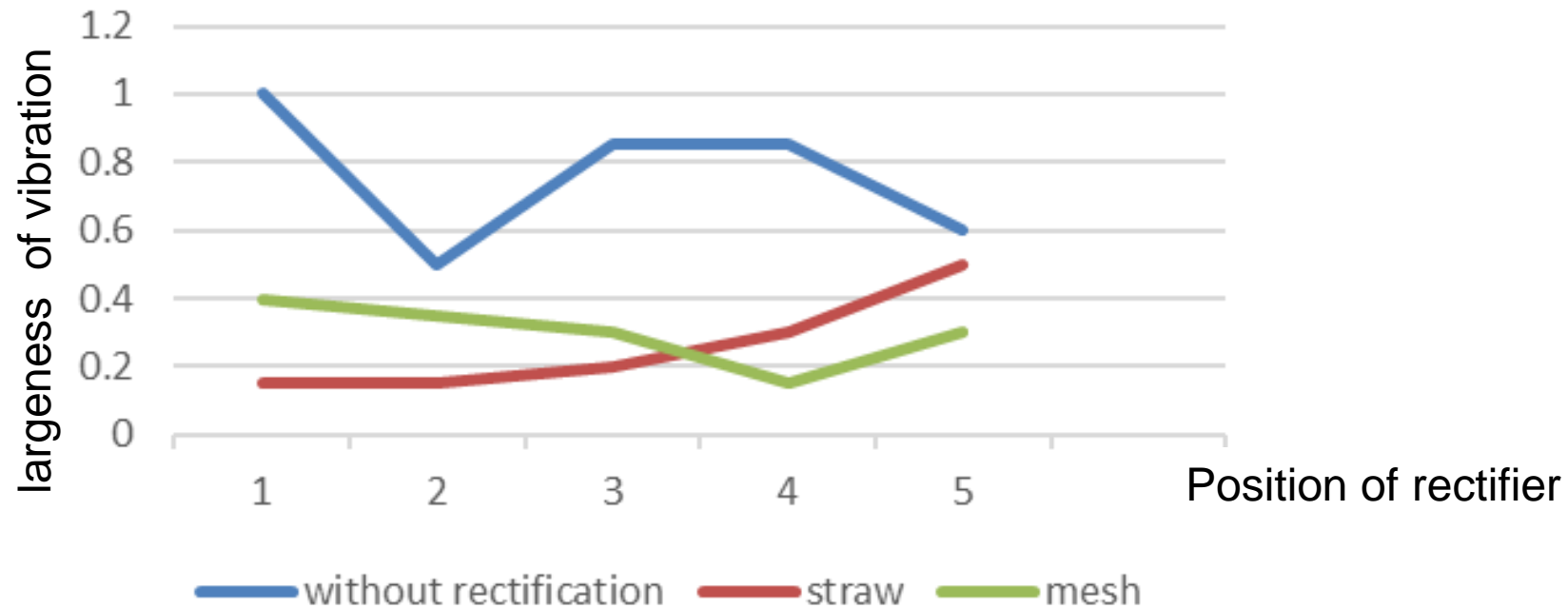


rectifier



plastic tube

## 4 result



From this graph, both straws and meshes can make wind's movement more smoothly than nothing.

Judging from the graph when we put straws or meshes all points, meshes worked better than straws .