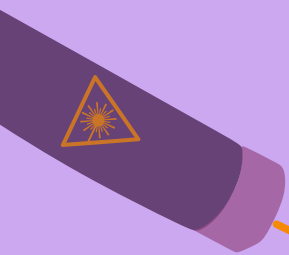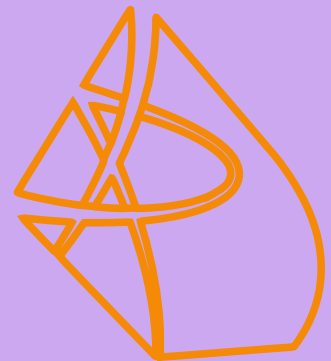# 10th French Physicists' Tournament
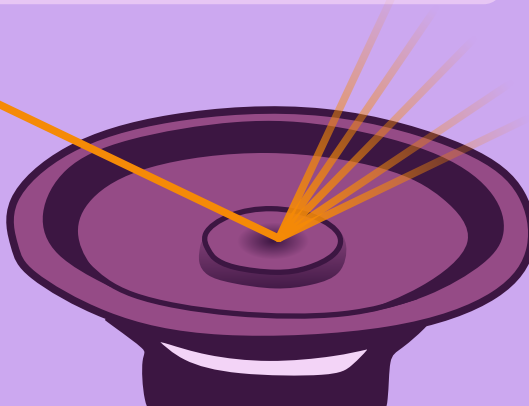
Problem 12 : dancing lights

Put a membrane with a mirror over a speaker. Then project the reflection of a laser pointer over a screen. By driving the speaker with single or multiple frequencies, you may observe lines and shapes projected in the screen. Given a closed trajectory in 2D of a single line, find the input on the speaker required to "paint" the line. Can you also "rotate" the line as you desire? Investigate the limitations.

more problems at fpt.science

never ♪ gonna
give you
up ♪

experiment

report

oppose