04OAGQD- Vibration mechanics (prof. Fasana) 2021-2022

"Rotor on flexible supports", 26th May 2022

A short report will **possibly** be requested as the second official report, i.e. to add two extra points on the final mark.

This report should contain at least:

1) Free-body diagram of the 2DOF system
2) Equations of motion
3) A table including estimates of mass and moment of inertia of each disk, plate, shaft and rod (on the basis of the drawings, do not consider holes)
4) An estimate of the stiffness k of each thin beam, when the whole mass is moving along x
5) Estimates of the natural frequencies (Hz)
6) A short comment about the reasons why the previous results differ from the experimental ones (f_1=8 Hz and f_2=32 Hz)

The pdf file should contain **max 3 pages**