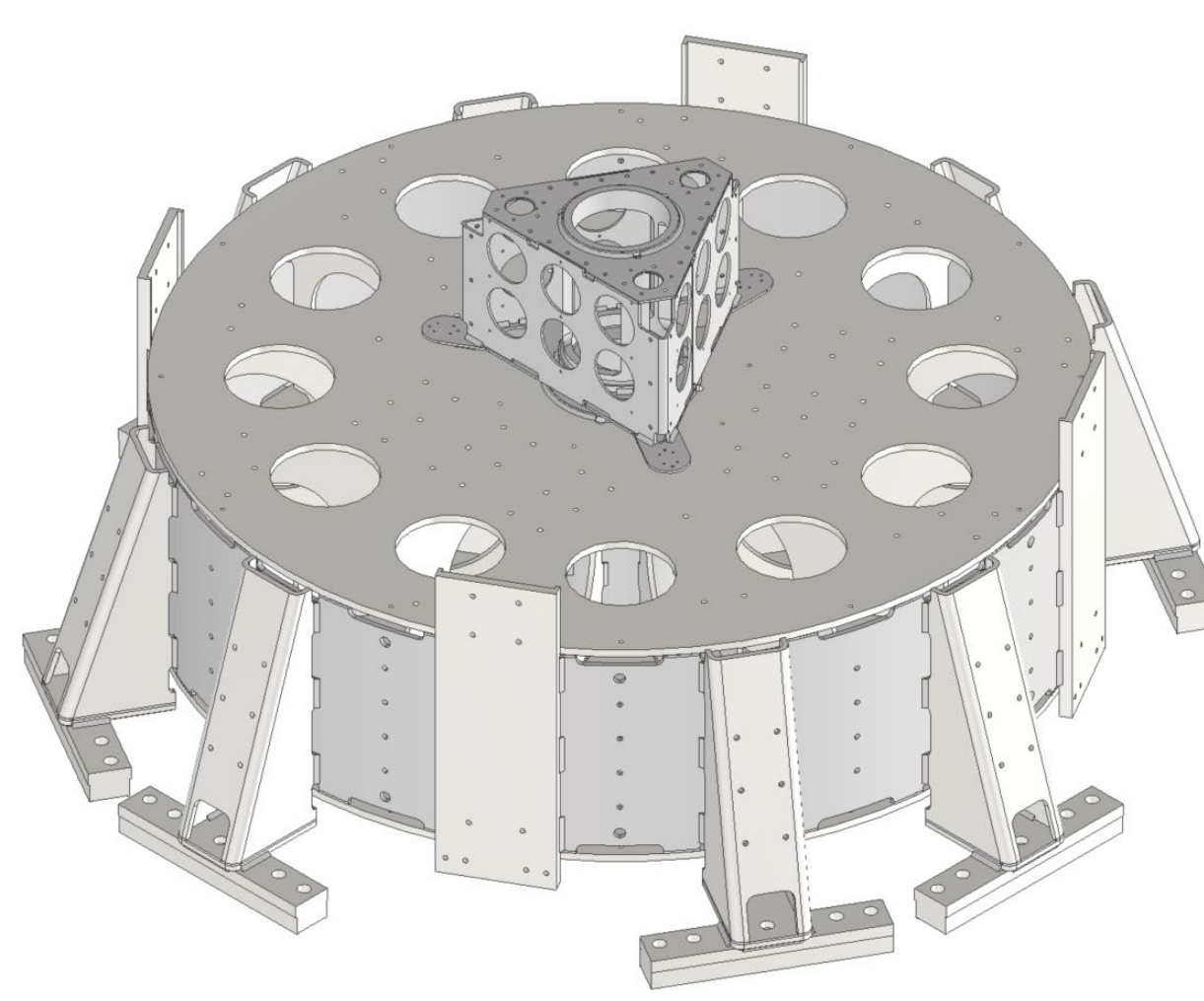
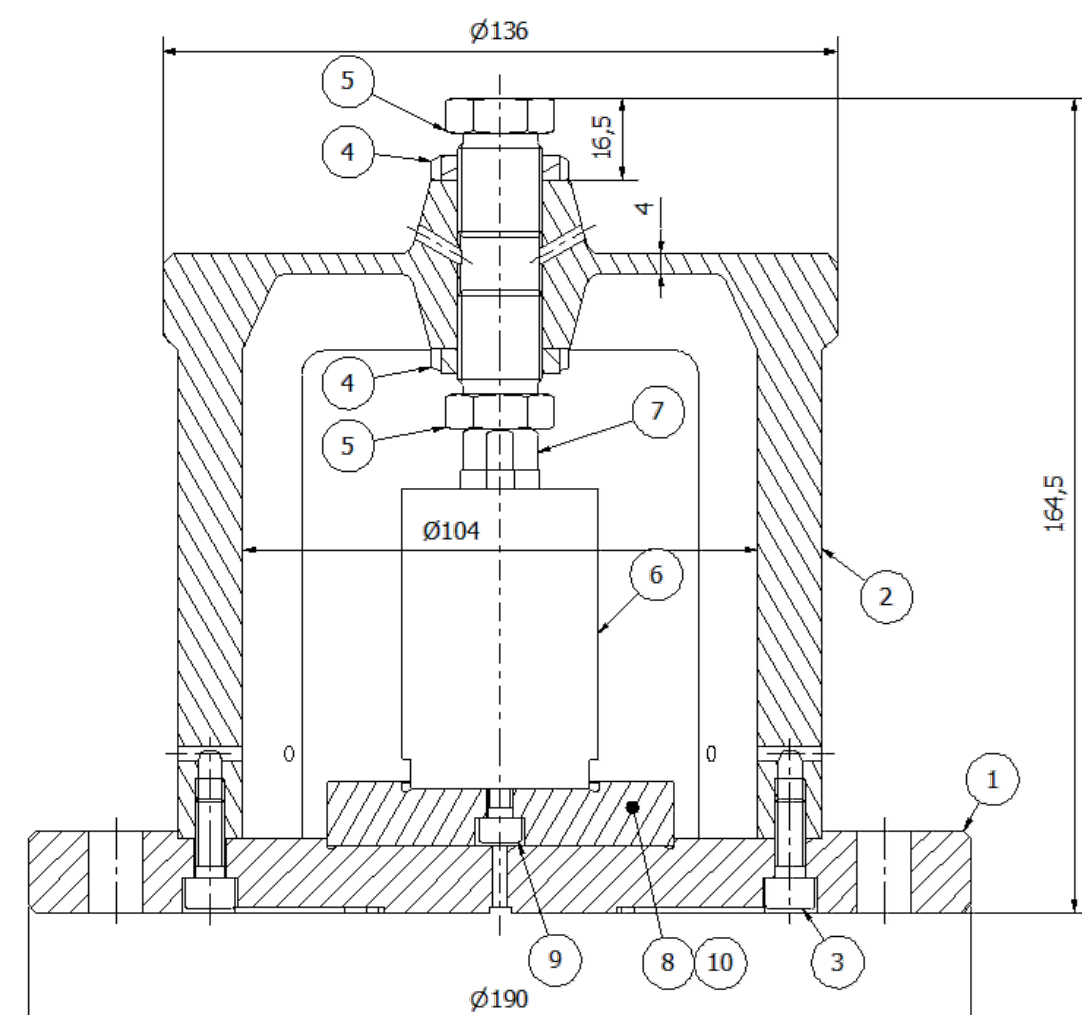
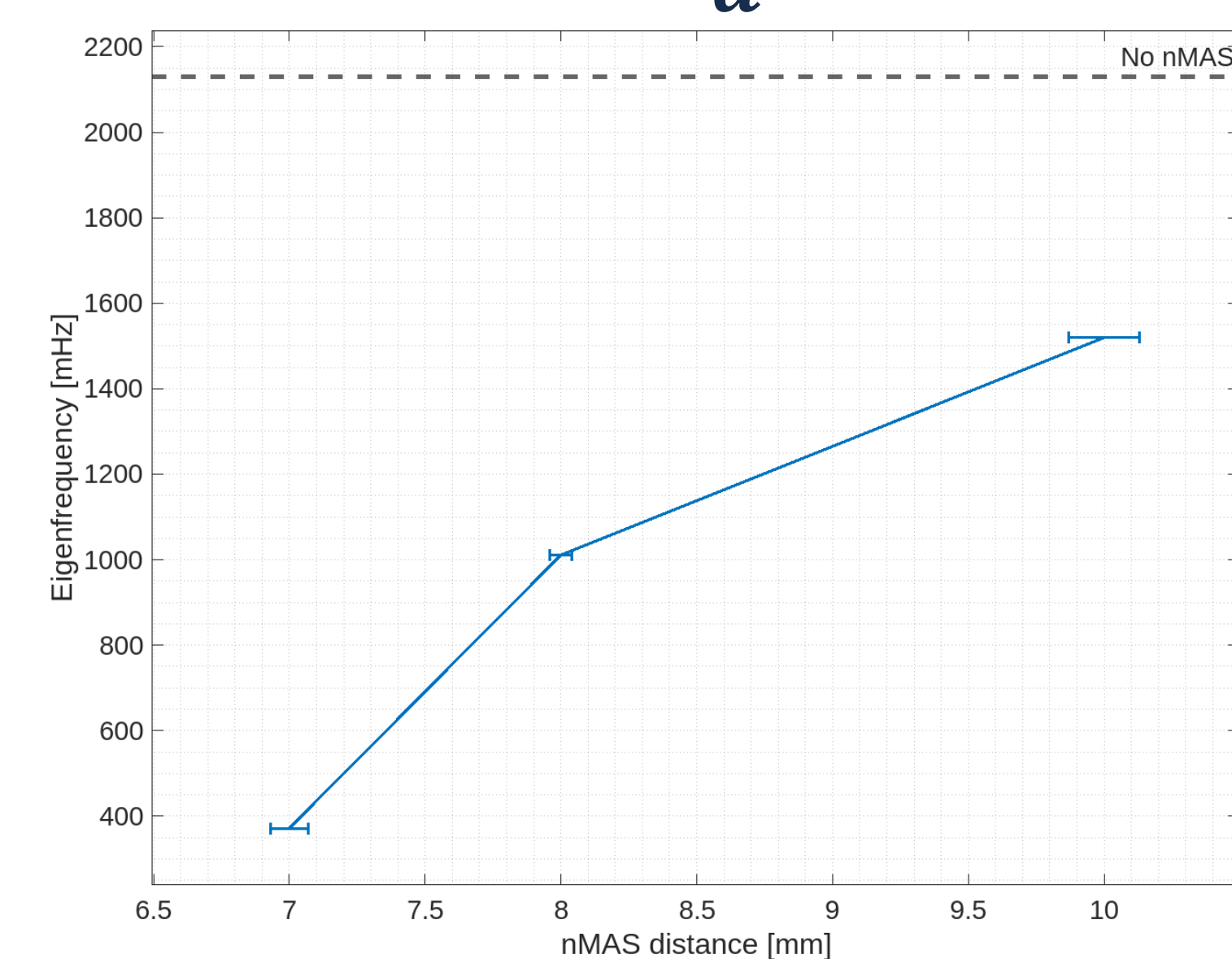




1) Università degli studi di Perugia; 2) INFN Sezione di Perugia; 3) INFN Sezione di Pisa; 4) Galli & Morelli S.r.l.

CAOS Superattenuators will allow for testing the technology proposed in the ET CDR, while providing an almost 1:1 scale R&D testing facility for specific Superattenuator items.

Figure 1: Schematic diagram of the MAS (Micro-Assembly System) and its force components. The top part shows a cross-section of the MAS with labels: setting screw, magnets, crossbar, centering wires, central column, blades, and hinge. Dimensions include 70 cm for the main body and 10.5 cm for the central column. Arrows indicate 'to the previous stage' and 'to the next stage'. The bottom part shows two diagrams of a rectangular object. The top diagram shows a horizontal force F_0 . The bottom diagram shows a horizontal force F_0 and a vertical force F_y acting on the object, with a distance d from the center of mass to the point of application of F_y , and a vertical displacement y .



Galli & Morelli is officially in charge of producing the mechanics of the two Superattenuators. Currently, standard filters are in production, while the Reference Structures, Base-rings, Disk 0, Steering Wheels, and Payloads are in the design phase.

