



## The Advanced Virgo monolithic fused silica suspension



P. Puppo<sup>3</sup> for the monolithic suspension team INFN Roma





Ears

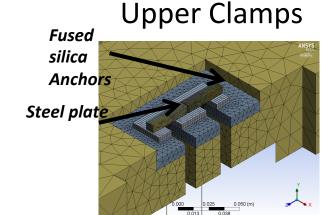
Anchors

## Monolithic suspensions of the Advanced Virgo Mirror

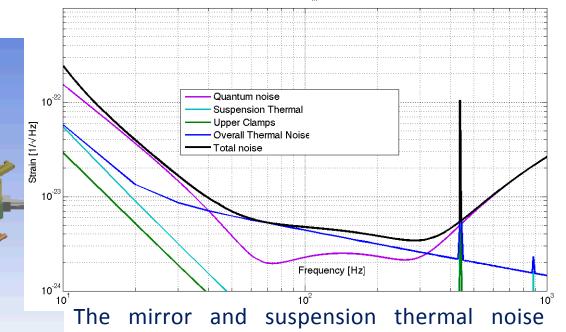
- Double pendulum system;
- 40 kg mirror suspended with fused silica fibers;
- new wire clamping with the upper stage, silica-steel interface at the level of the upper stage;

 new ears and wire upper and lower T-clamps;

0.600 (m)



## **Thermal Noise Calculation with FEM**



calculated with FEM (blue) is compared with

the Advanced Virgo sensitivity curve (black).

