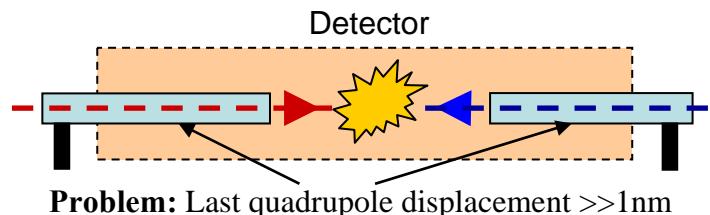


LAViSta: Laboratories in Annecy working on Vibrations and Stabilisation

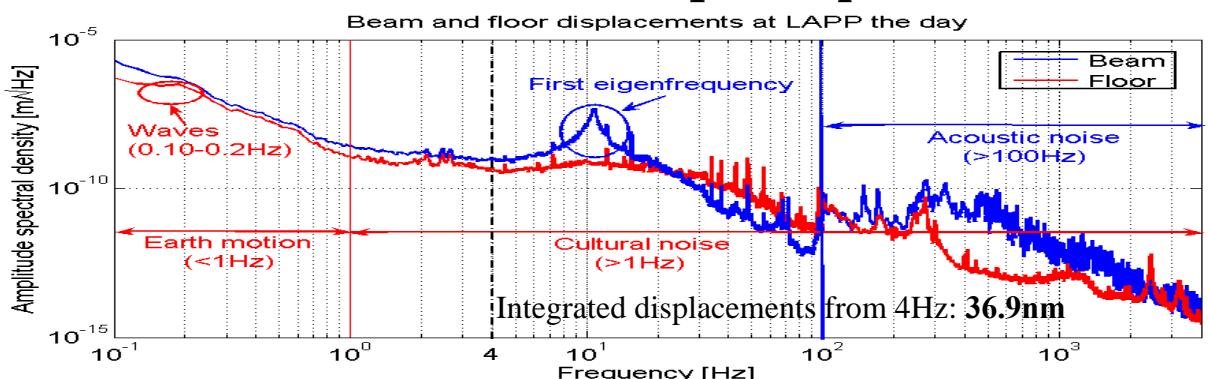
Linear collider

$$L = \frac{K}{\sigma_x \cdot \sigma_y} = 10^{34} \text{ cm}^{-2} \text{s}^{-1} \text{ (CLIC)}$$

Fixed machine parameters
Transverse beam sizes
Beam vertical size $\sigma_y = 1 \text{ nm}$

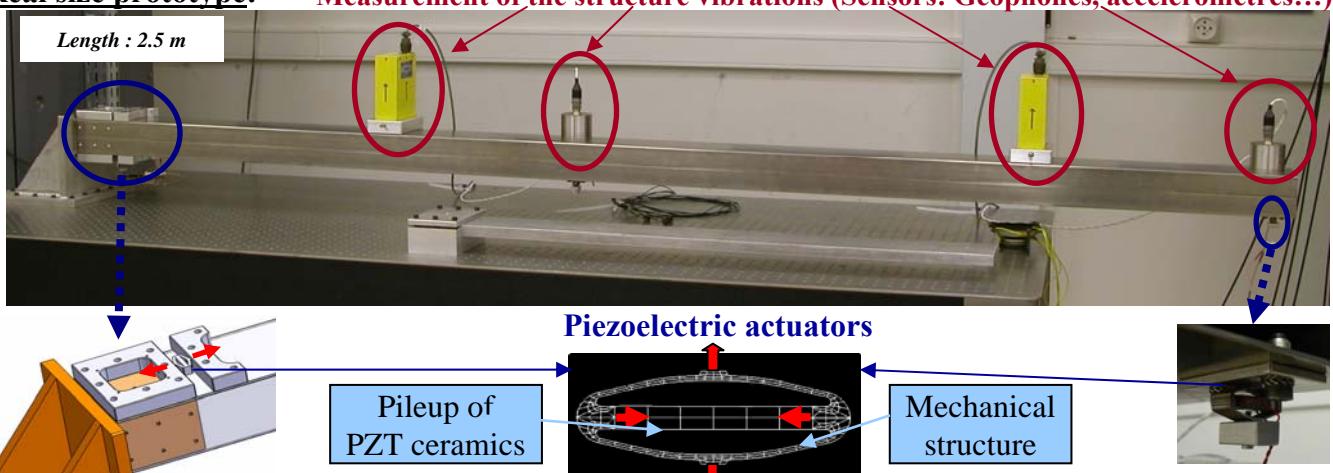


What makes the two last quadrupoles move?

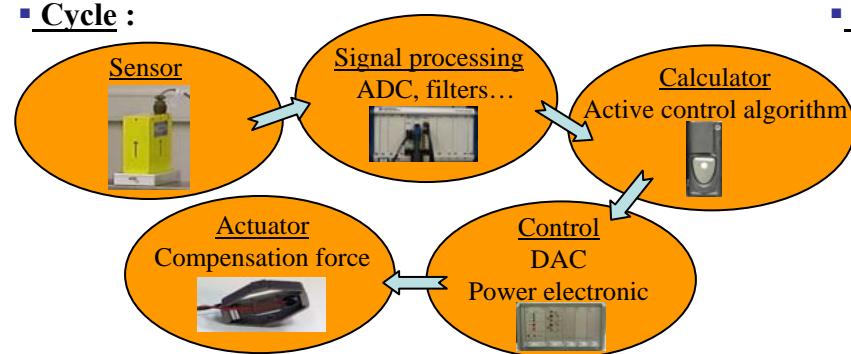


→ Goal: Stabilisation of quadrupoles at 1/3 of nanometre

- Real size prototype: Measurement of the structure vibrations (Sensors: Geophones, accelerometres...)



- Cycle :



- Results obtained at the micrometre scale:

