

ET Vacuum

- 12 x 10 km arms @ room temperature + cryogenic endstations (mirrors)
- Largest UHV system ever built
- Fluctuations in gas density → fluctuation in the index of reflection → noise
- Vacuum 10⁻¹¹ mbar (cost 450 Mio. €)
- Technological developments for better vacuum and lower cost
 - New materials
 - Coatings
 - Distributed pumping
 - New concepts for pipes
 - New production technologies
 - Better design tools

25.5.2022

New UHV Technologies





