

LUXE: Laser aspects

Laser / infrastructure (Ingmar, Ralph)

1. What lasers would be available in the $10^{19} - 10^{21}$ W/cm² range and what are their physical requirements on space? And, what do they cost?
2. Where would be a room to put a new laser, and how can it be guided to the IP?
3. Can an existing laser be guided to the IP? E.g. from HIBEF.
4. How well can we know the intensity of the laser? E144 had up to 50% uncertainty on this.
5. Laser needs to be in vacuum. How was this solved for ANGUS laser and REGAE? => Ask Andi Meier.
6. Would it be thinkable/possible to use the HIBEF laser, guiding it above ground to the XSUD1 shaft? => Talk to Thomas Kaun