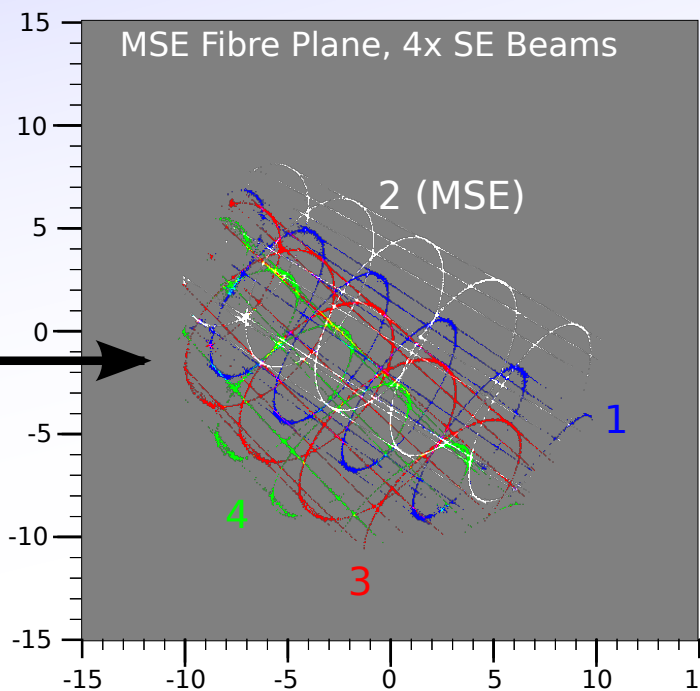
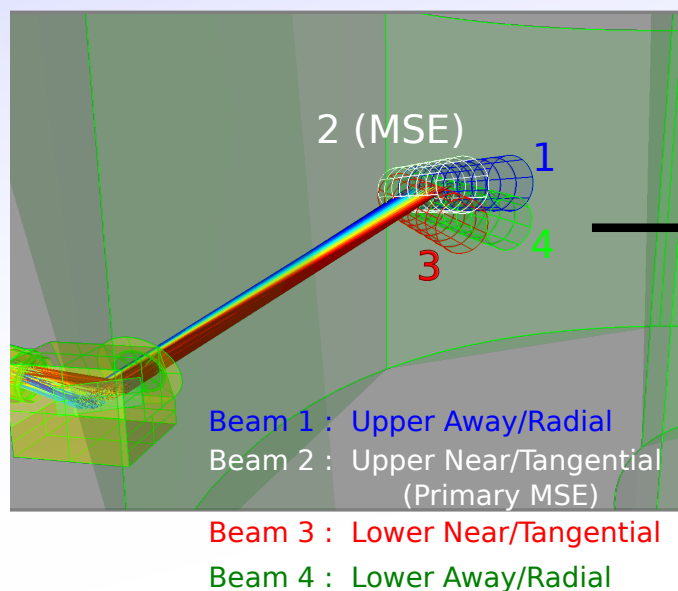


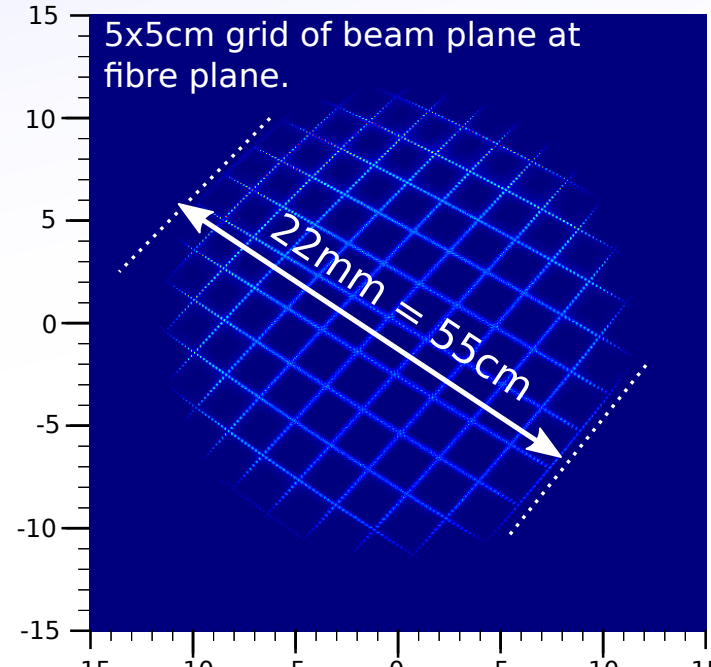


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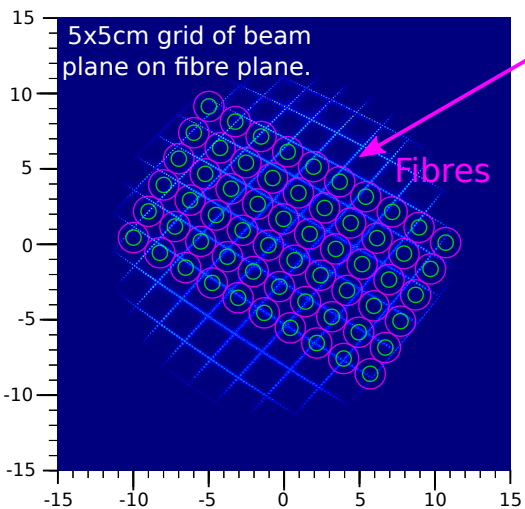
The image of the beams (20cm wide cylinders), at the fibre plane, should look like this:



Ray-tracing a 5x5cm cell grid from the beam plane to the fibre plane gives:



Full FOV: ~55cm at beam plane, ~22mm at fibre plane. We need to demagnify this 22mm onto our 8.9x6.7mm CCD.



There are some discrepancies with what we think we know:

We think the fibres are roughly 10x6 grid of 2mm fibres with 1mm core [T. Löbhard].

Ray-tracing of FARO data suggests fibres are ~1.2mm apart vertically.

Original paper [R.Wolf] says 12cm height at beam plane. Here it looks like 18cm.

The final lens L4 has an inconsistent focal length and radius. Radius agrees with imaging, but focal length gets light through PEMs parallel.

However, the 10 channels cover the expected region of the plasma and this matches the ray traced 55cm - 22mm. This is the only important thing, which appears to be consistent.

