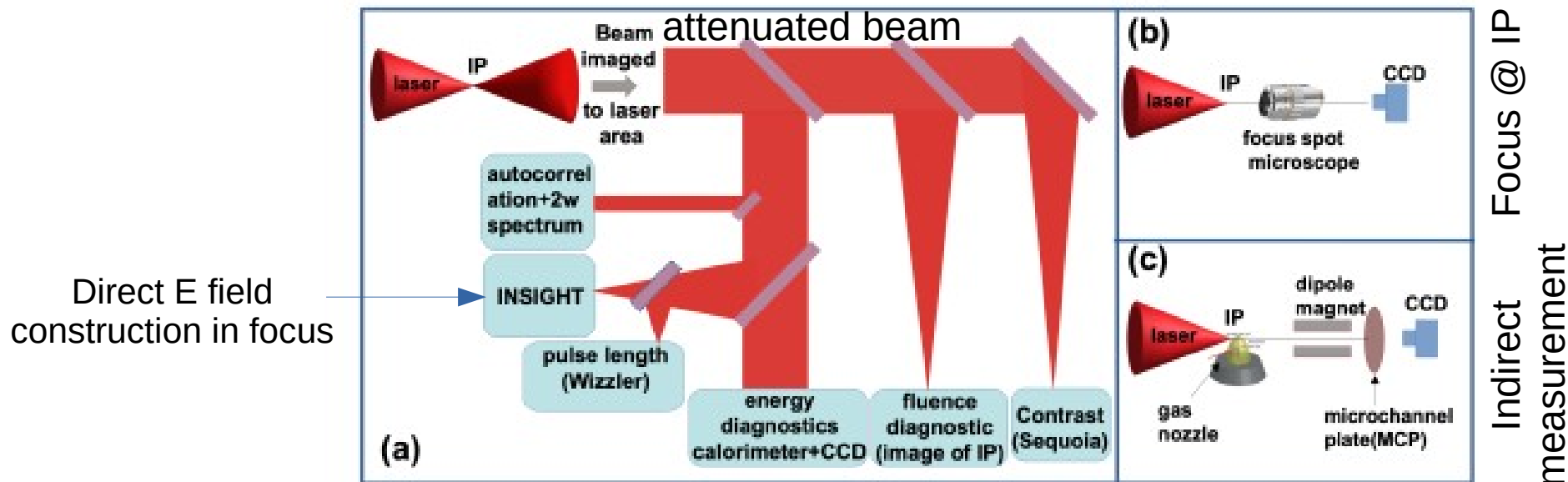


Single shot tagging scheme

Aim to reach uncertainty in intensity <1% relative!!



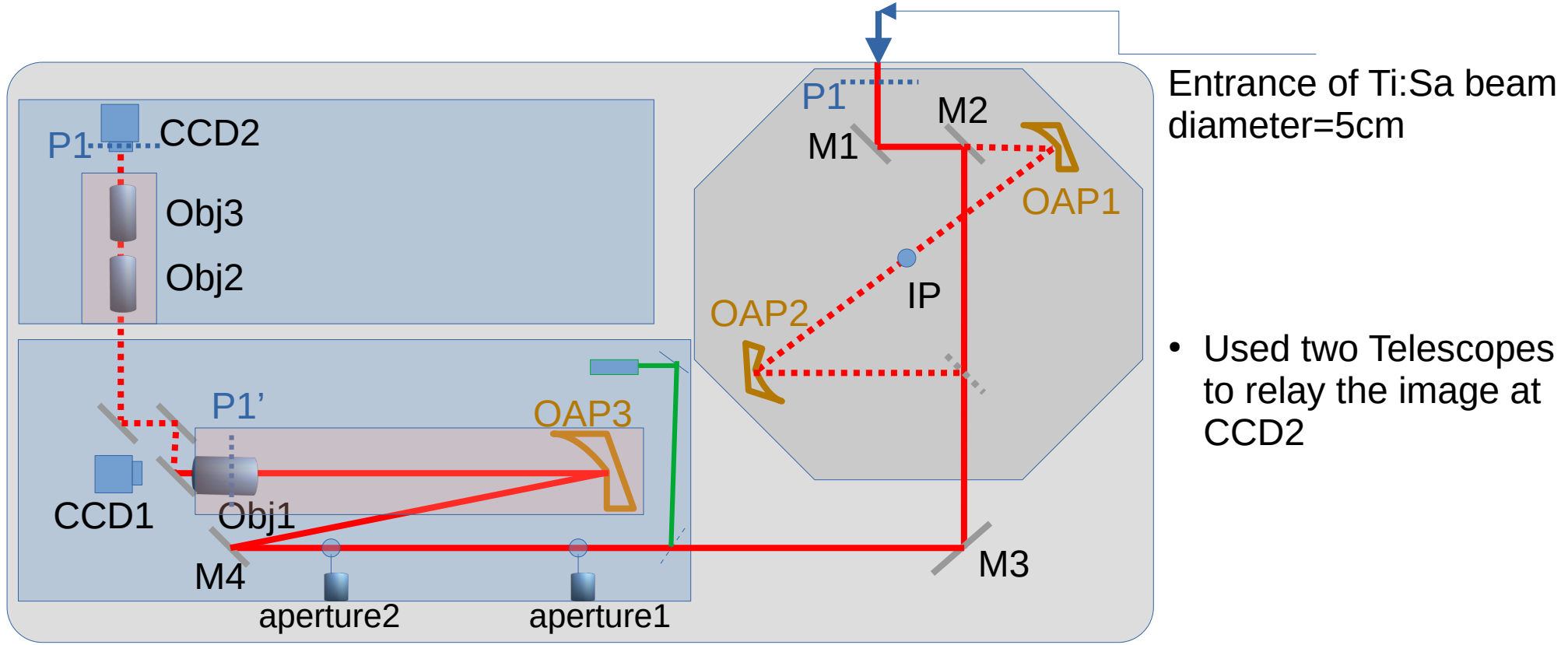
- Image laser to diagnostics
 - Identical phase and intensity distribution
 - Remote precision diagnostic possible
- First experiment on JETI 40 in progress

Precision level aim (relative):

- Energy: 10^{-5}
- Fluence: similar to energy
- Pulse duration: 10^{-3}

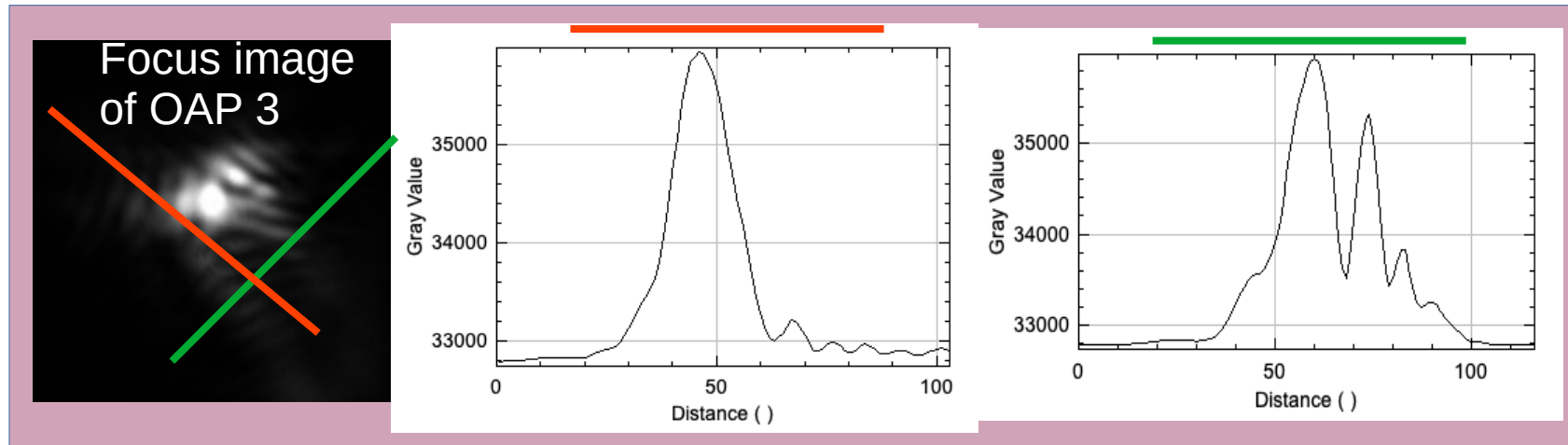
Current experimental activity:

- Aim of this set up is to image the plane P1 inside the vacuum chamber at CCD2



Recent results- relay imaging

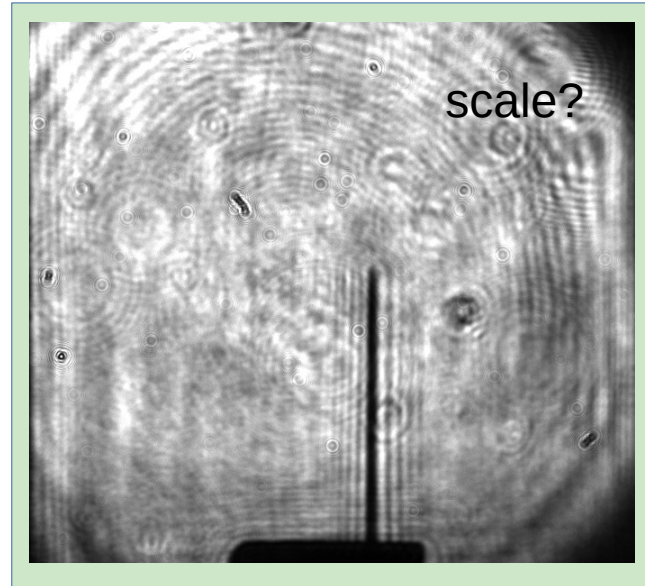
- Focus optimisation of OAP3 of first Telescope



- Then we set up first telescope by placing the OAP3 and Obj1 at 60+4 cm distance apart.
- The image of P1 is inside the Obj1. Hence we have to relay once more using obj2+obj3
- Nicely collimate the beam.
- Then we are ready to relay image again using obj2 and obj3.

- The image of a wire inside the chamber (at plane P1) is imaged at CCD2. This is our desired plane

Hopefully this week I can add the focus after telescope2.



- Our next step would be to go through the OAP1-2, and image the plane in front of it.
- This plane would be our actual desired plane and will be used by diagnostics.
- Correlate the focus quality at IP with the focus of the imaged plane with very good accuracy .