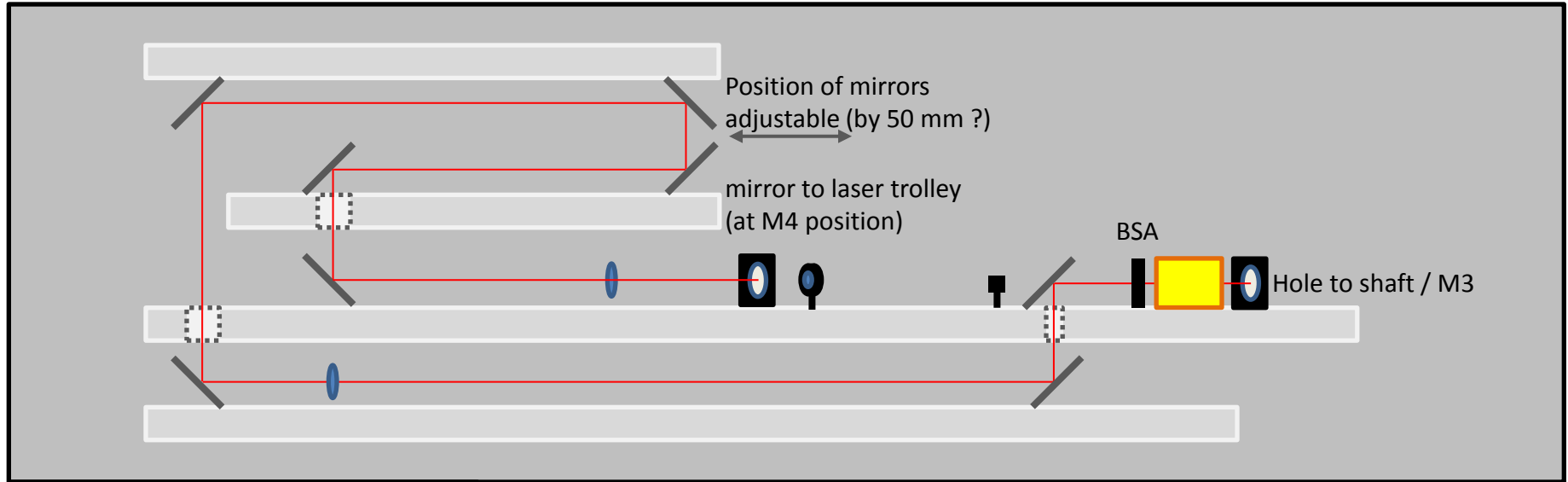


# Laser beam line upgrade in tunnel to 4f lens system



lens  $f = 5.5$  m

optical mirror ( $45^\circ$ )

duct

photo diode (pulse counter)

energy meter

Virtual BSA setup

## Distances:

distance BSA to 1<sup>st</sup> lens 5.5 m

distance 1<sup>st</sup> lens to 2<sup>nd</sup> lens 11 m

distance 2<sup>nd</sup> lens to cathode 5.5 m