

Meeting 0503

Kyoung-Hun Yoo

Reaction Chamber

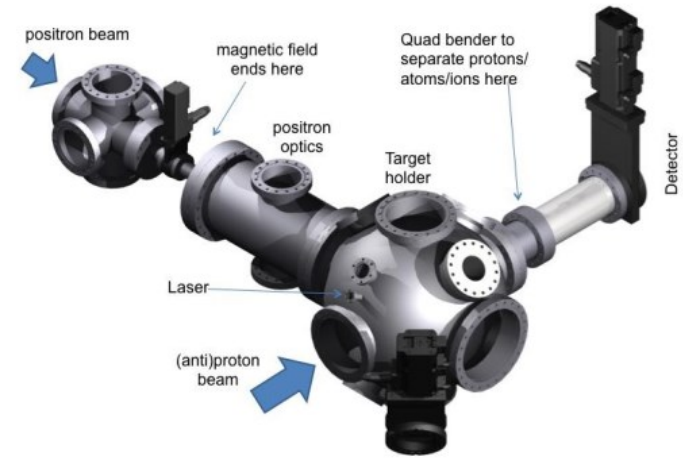
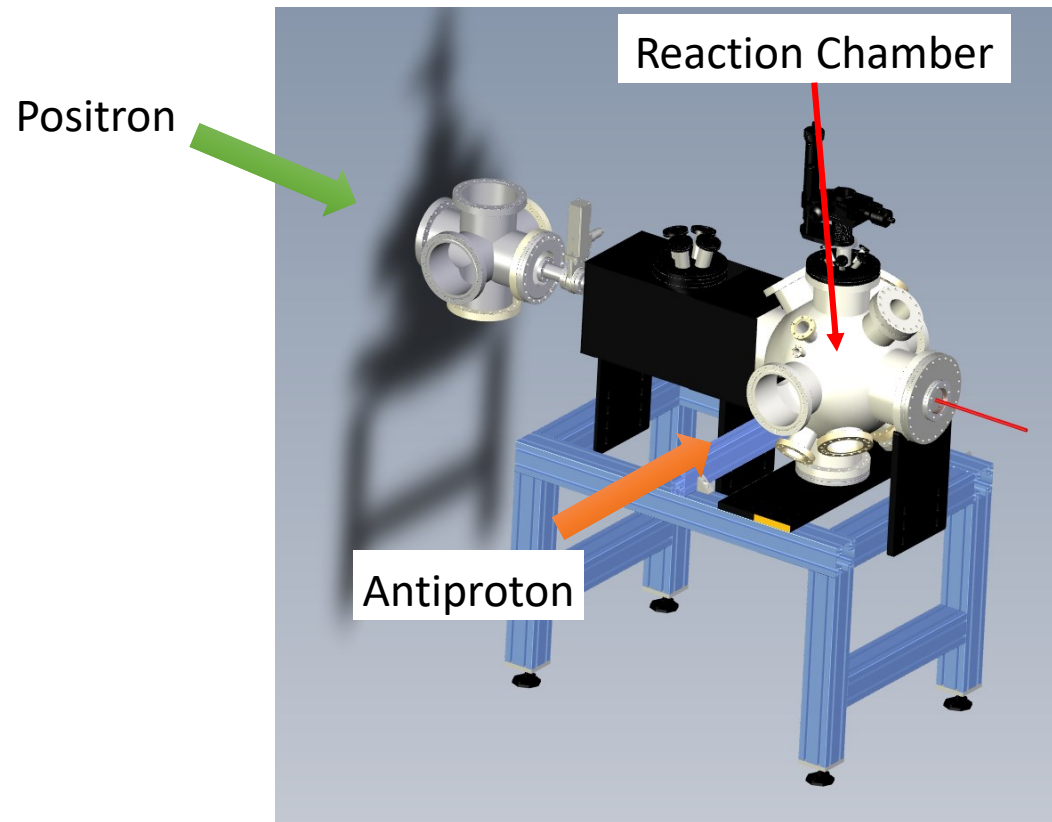
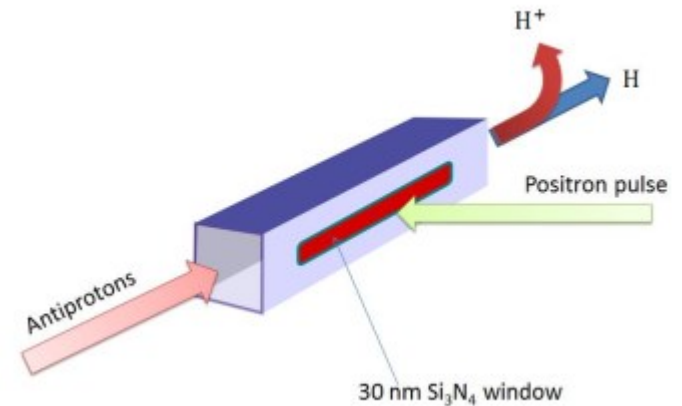
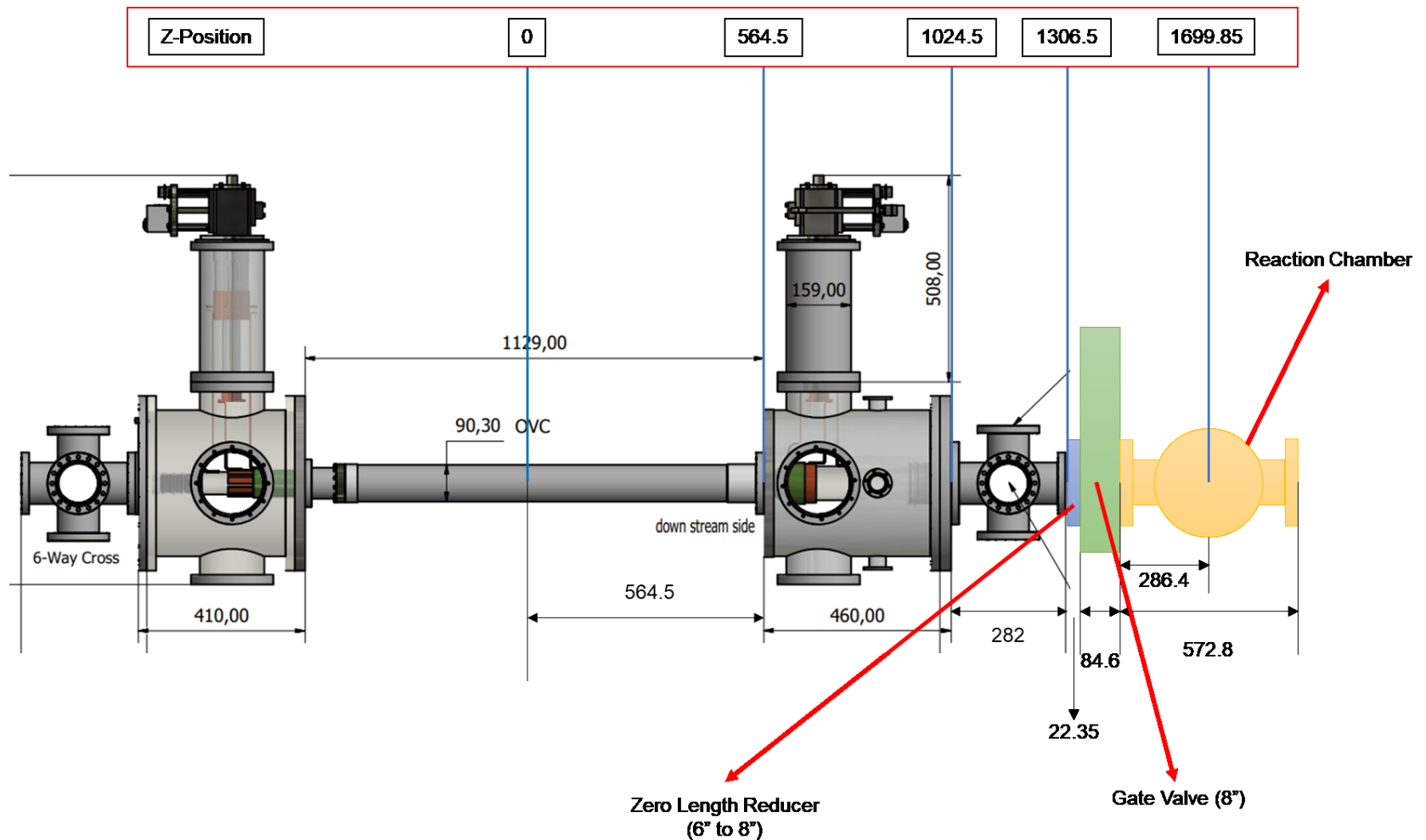


Figure 9 – Sketch of the reaction chamber

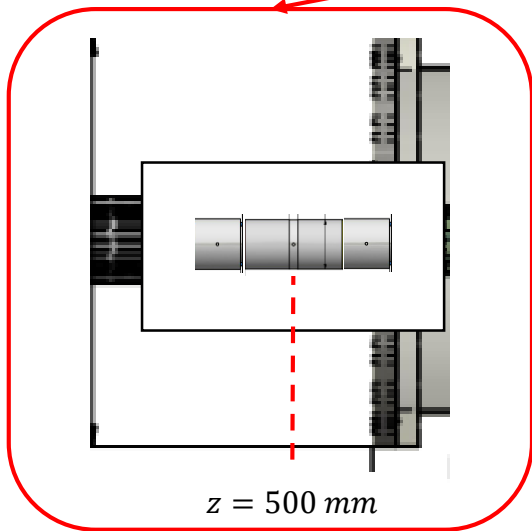


$2\text{ mm} \times 2\text{ mm} \times 20\text{ mm}$

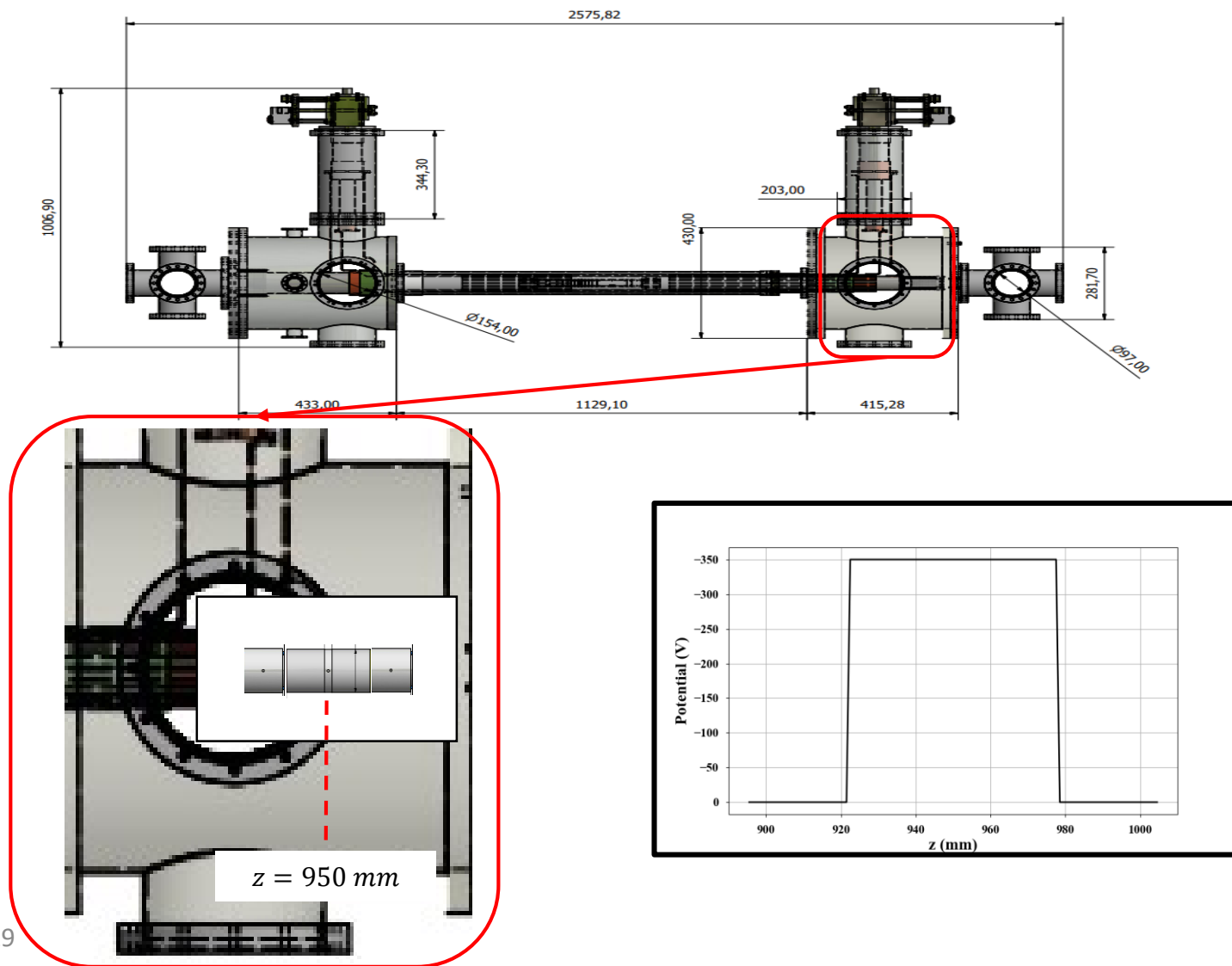
Overall Dimension



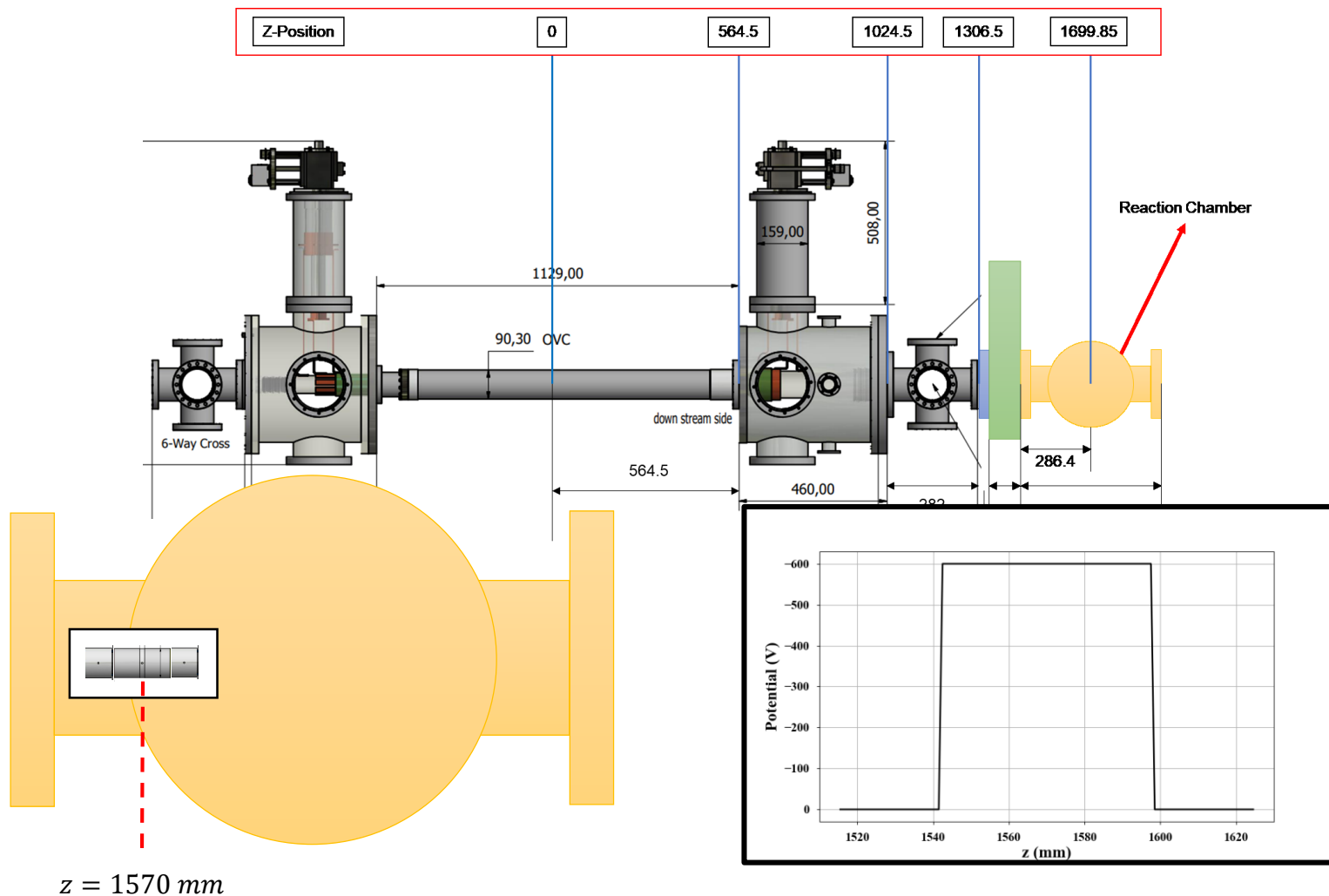
5/3/2019



Optics Setup

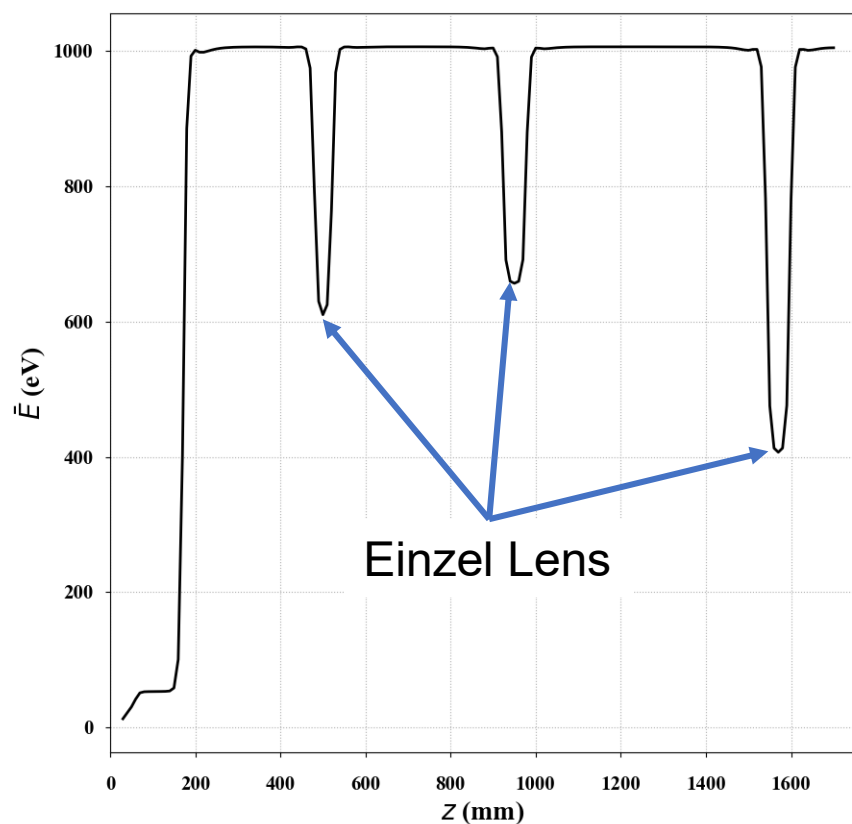


Optics Setup

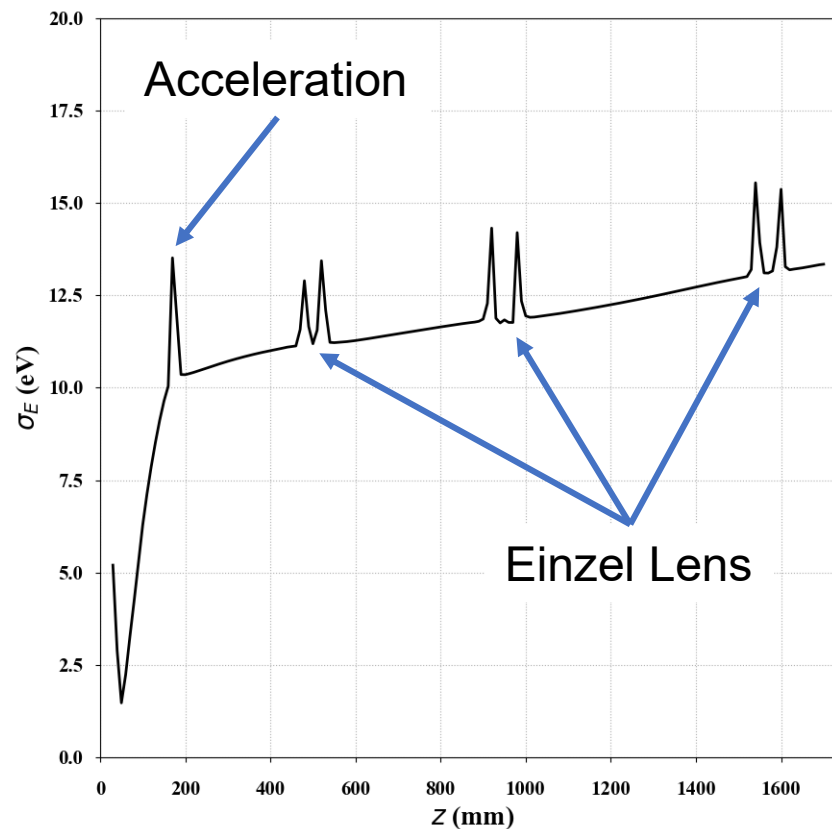


Transport Simulation (1 keV)

Mean Energy

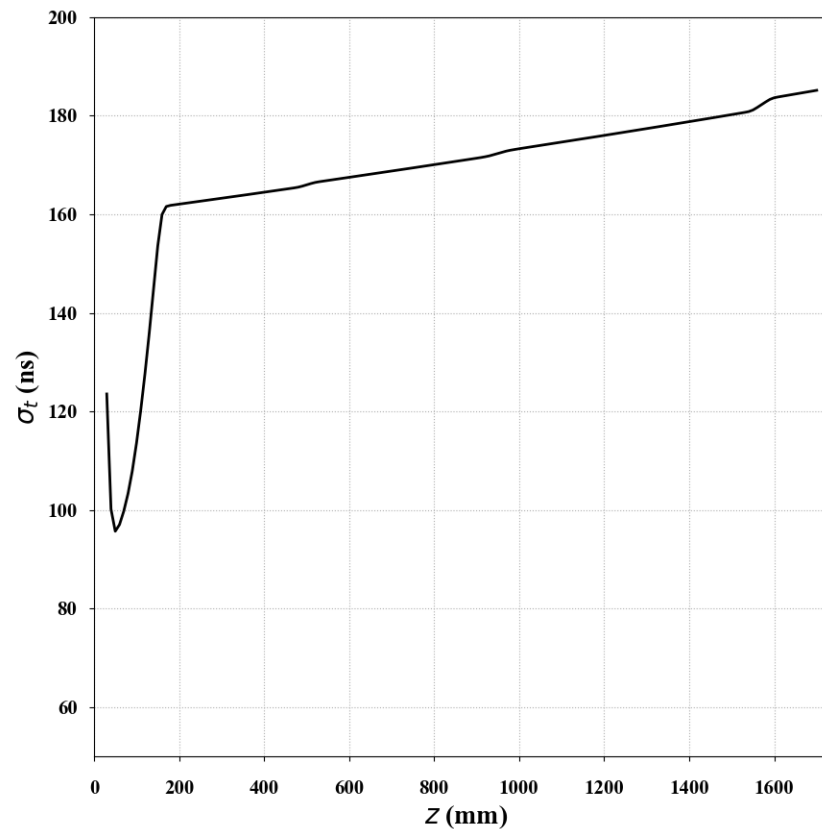


Energy Spread



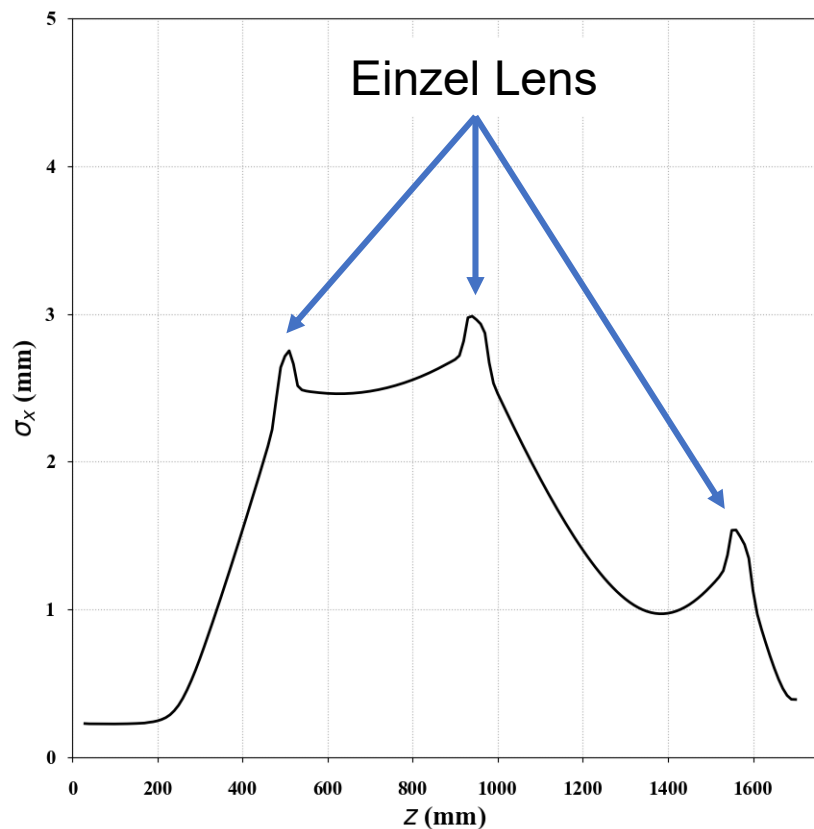
Transport Simulation (1 keV)

RMS Beam Length (t)

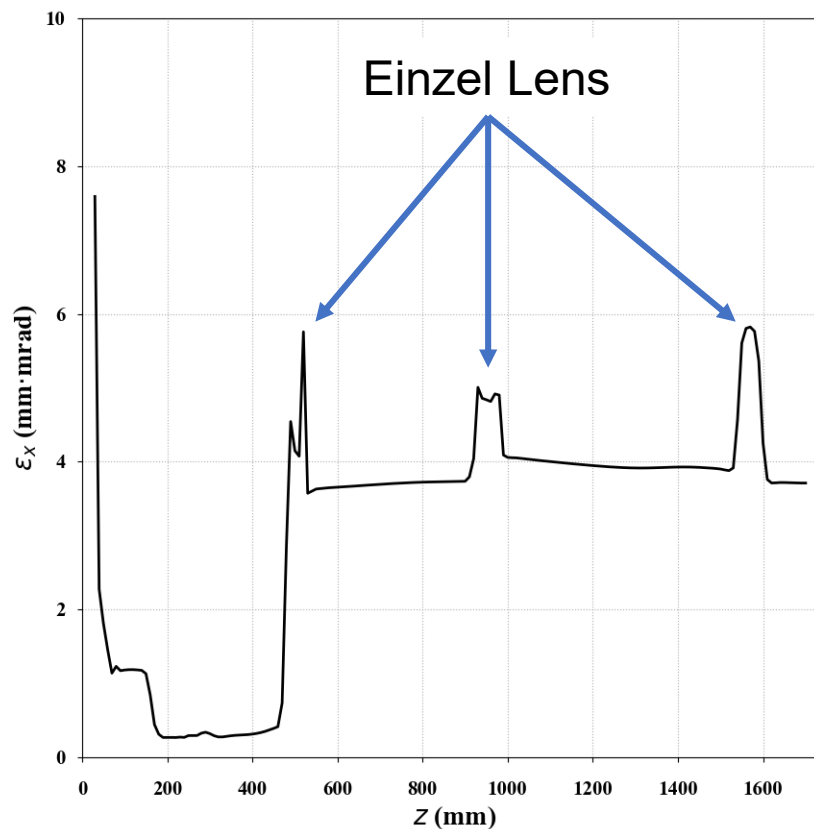


Transport Simulation (1 keV)

RMS Beam Size (x)

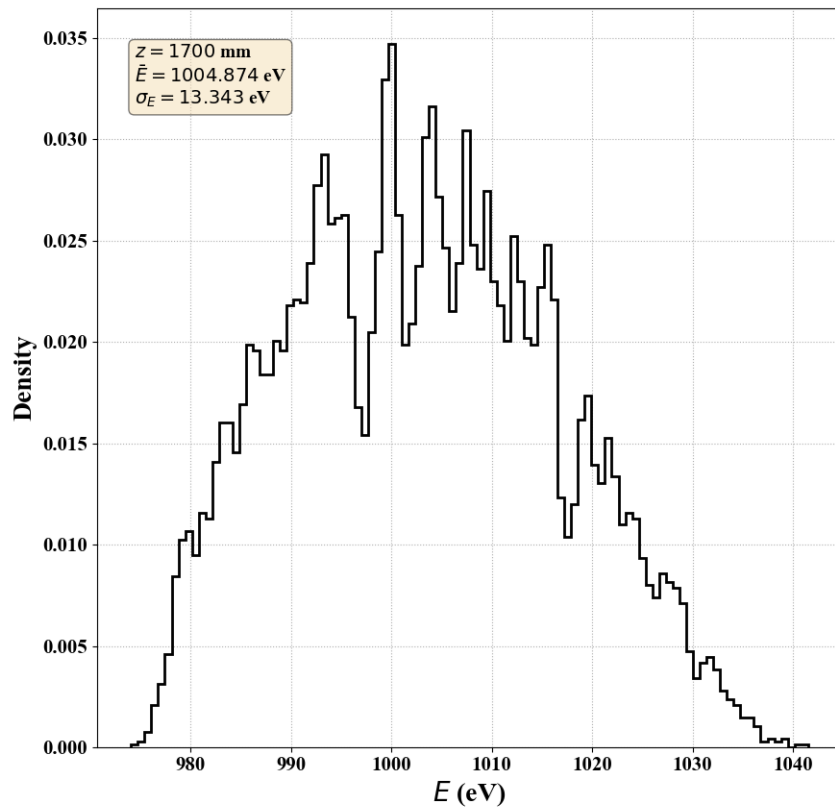


Emittance (ϵ_x)

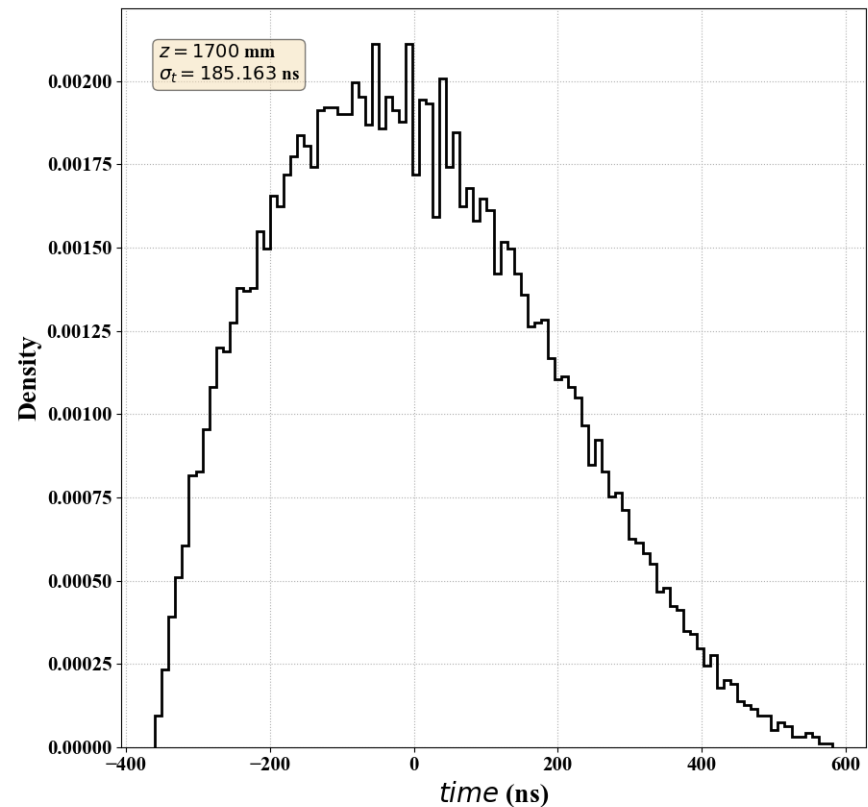


Transport Simulation (1 keV)

Energy Distribution

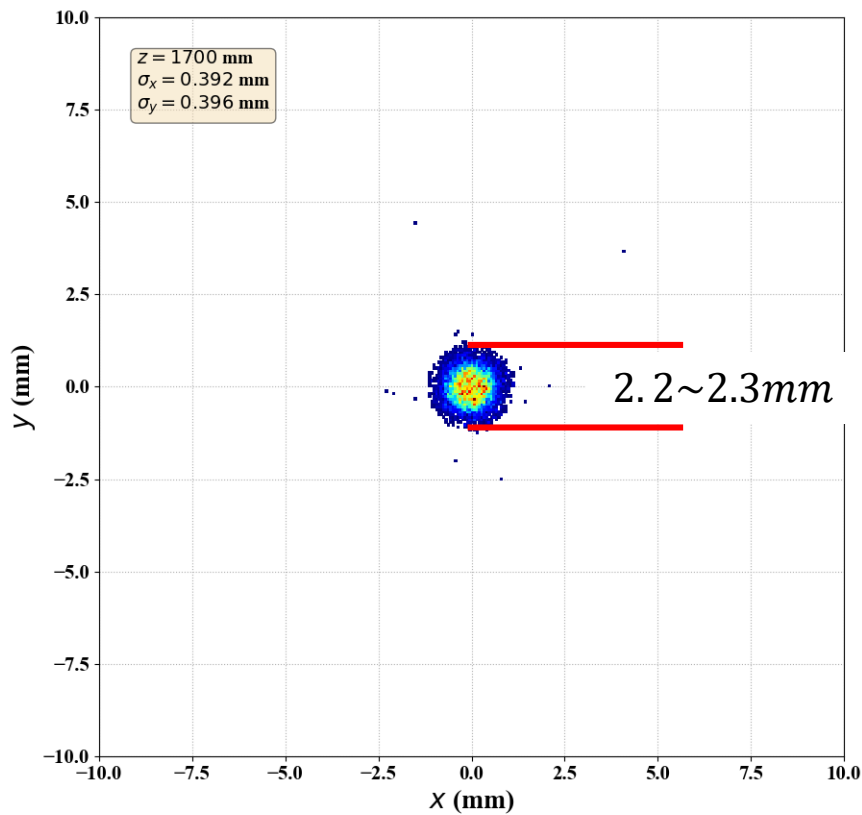


Time Distribution

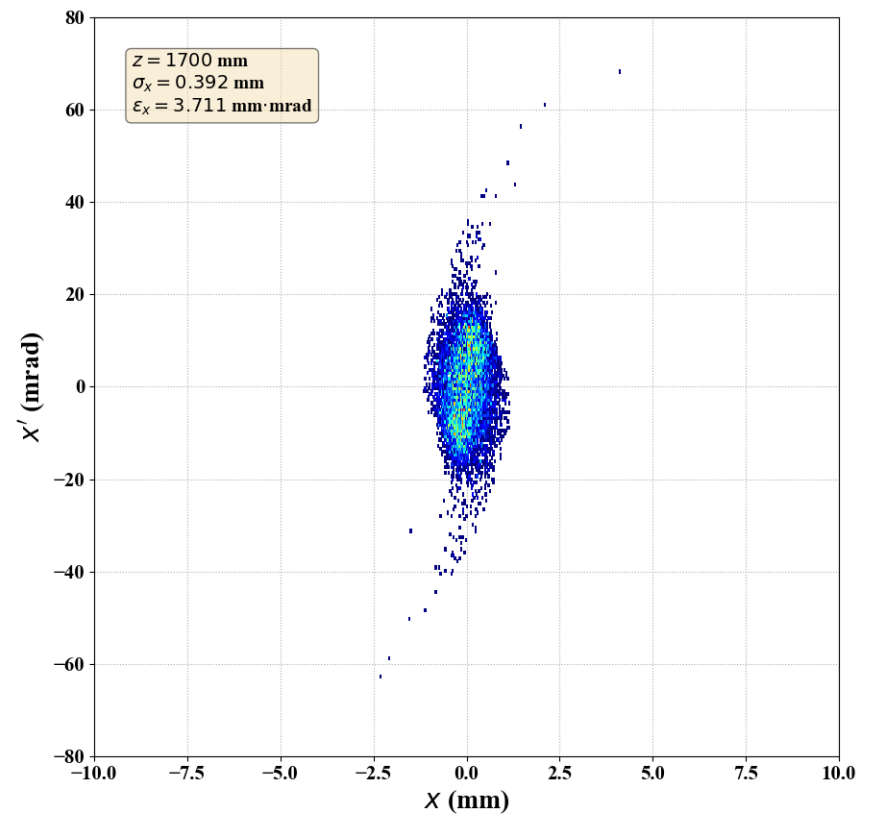


Transport Simulation (1 keV)

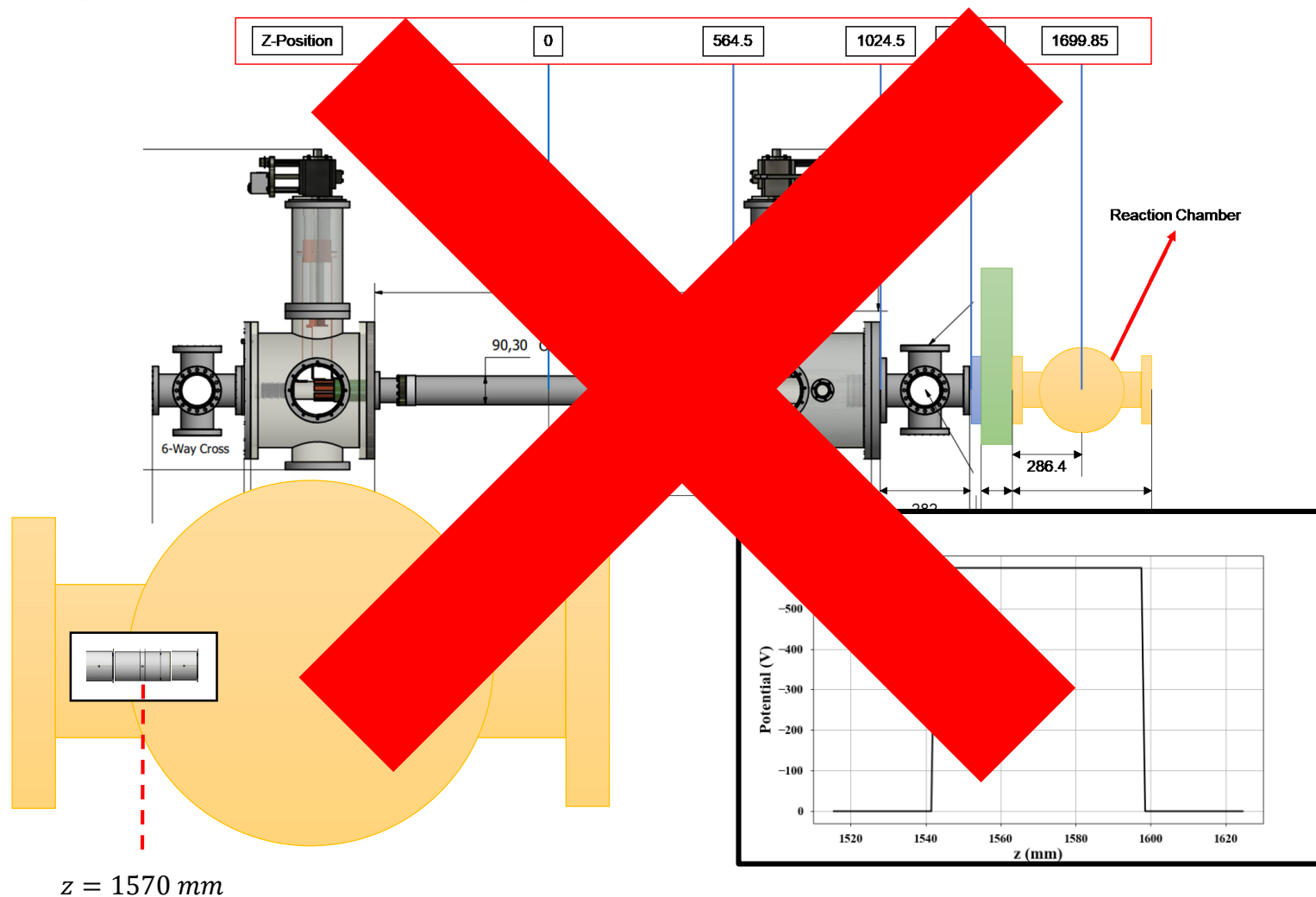
Transverse Distribution



Phase Space (x)

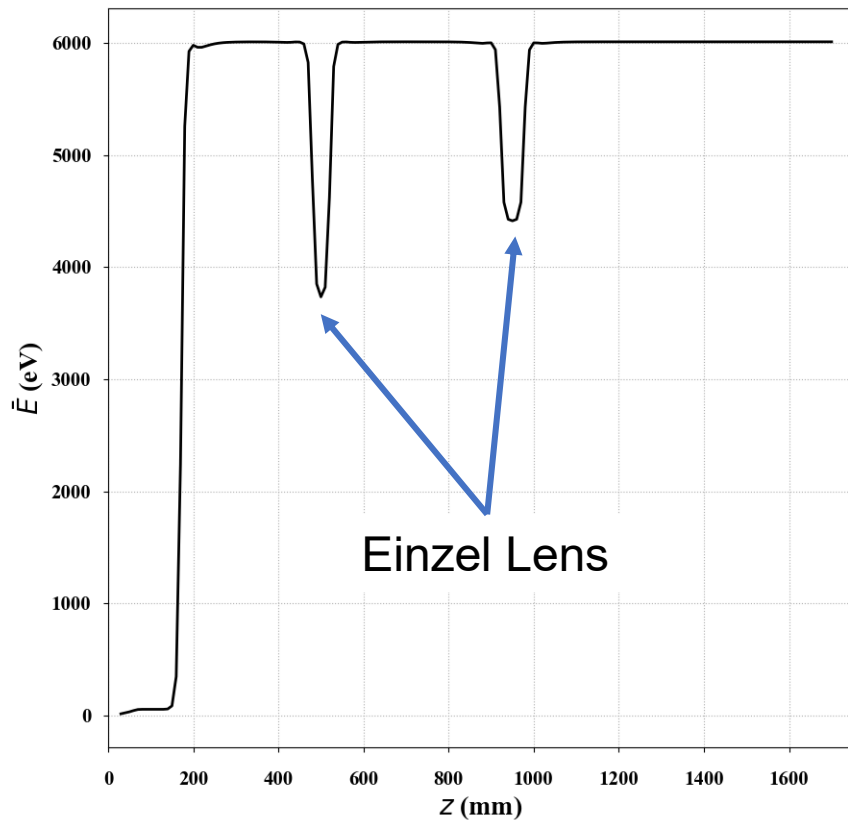


Optics Setup

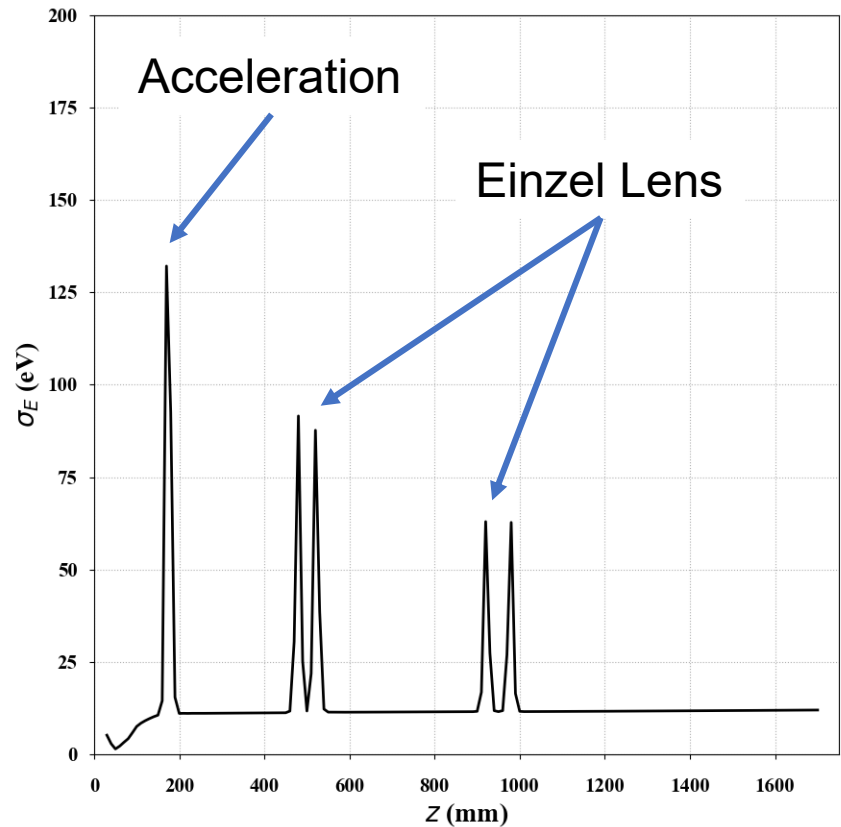


Transport Simulation (6 keV)

Mean Energy

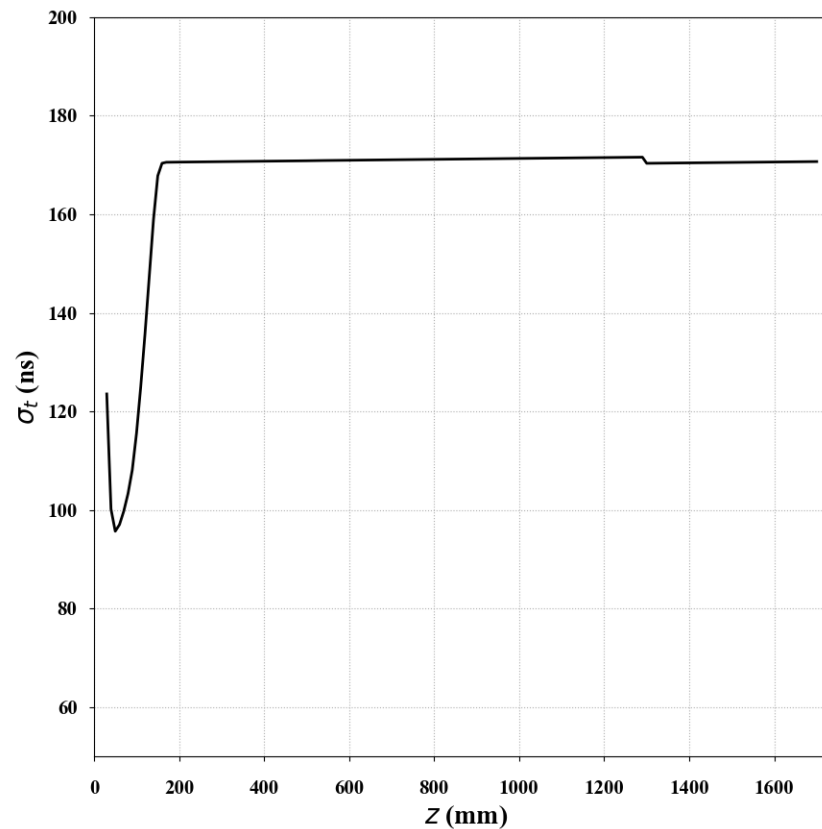


Energy Spread



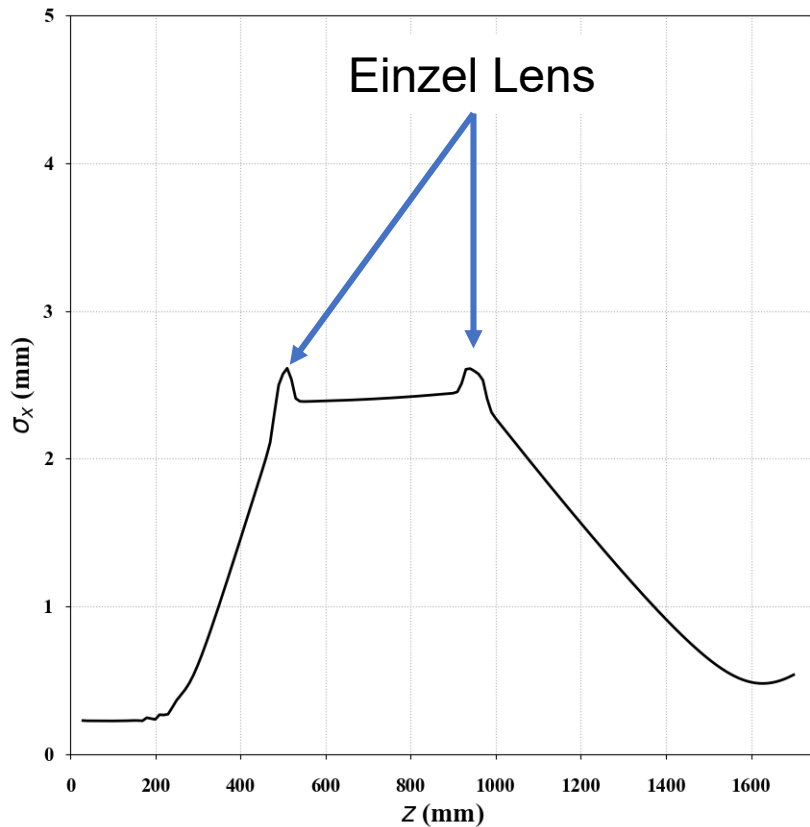
Transport Simulation (6 keV)

RMS Beam Length (t)

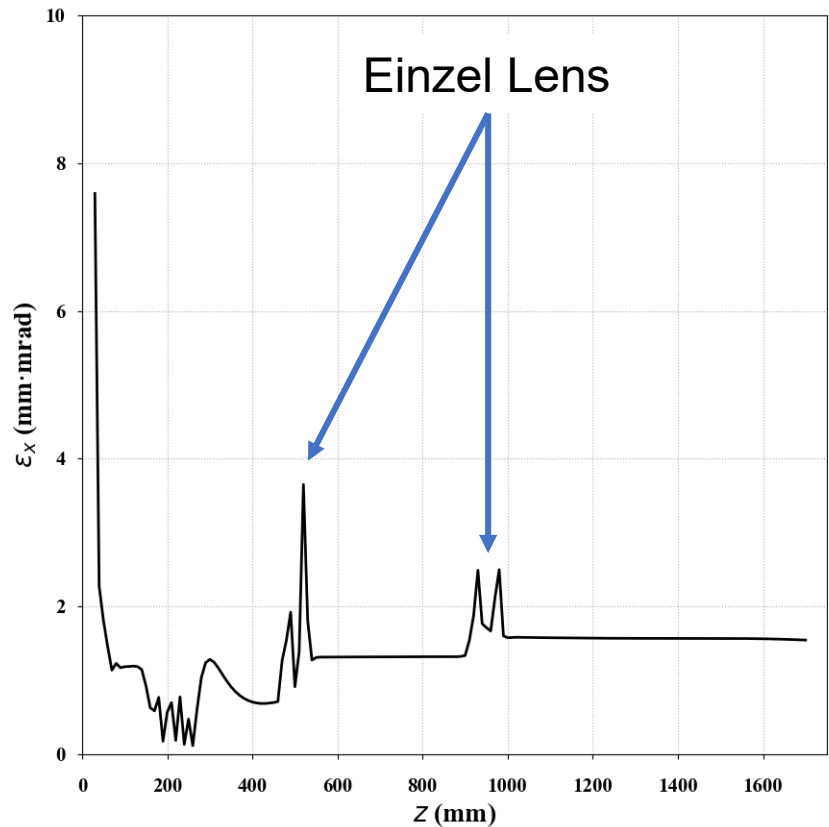


Transport Simulation (6 keV)

RMS Beam Size (x)

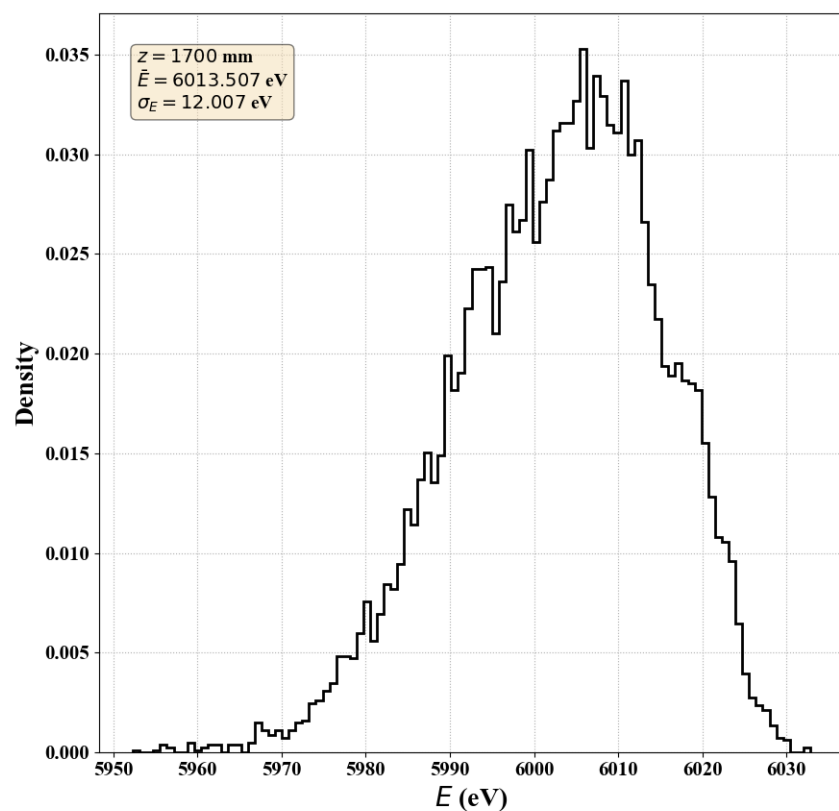


Emittance (x)

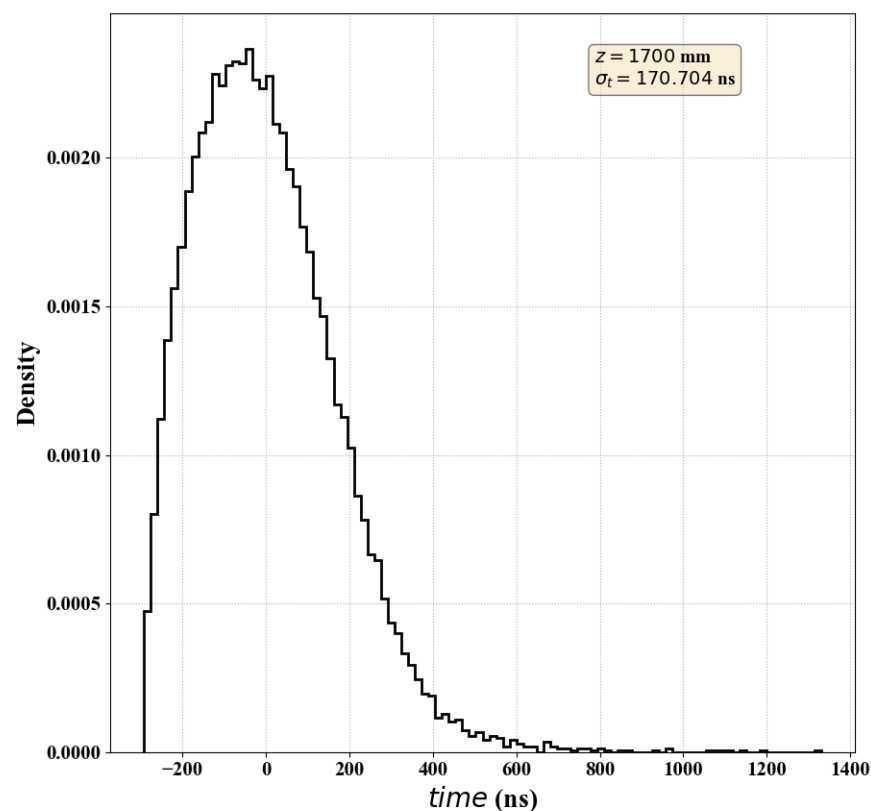


Transport Simulation (6 keV)

Energy Distribution

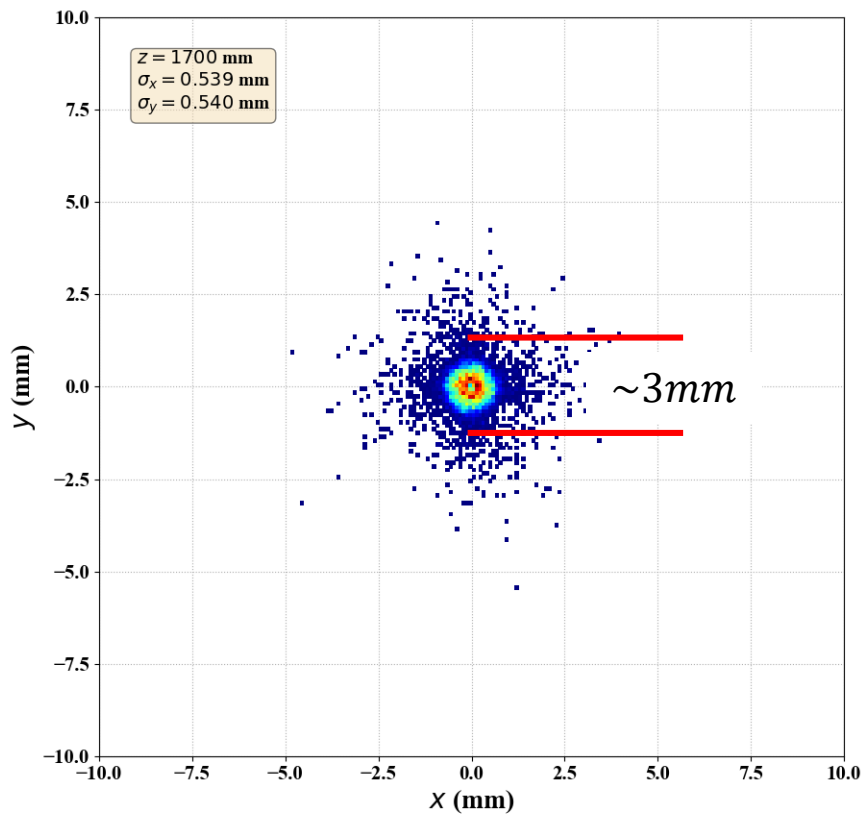


Time Distribution



Transport Simulation (6 keV)

Transverse Distribution



Phase Space (x)

