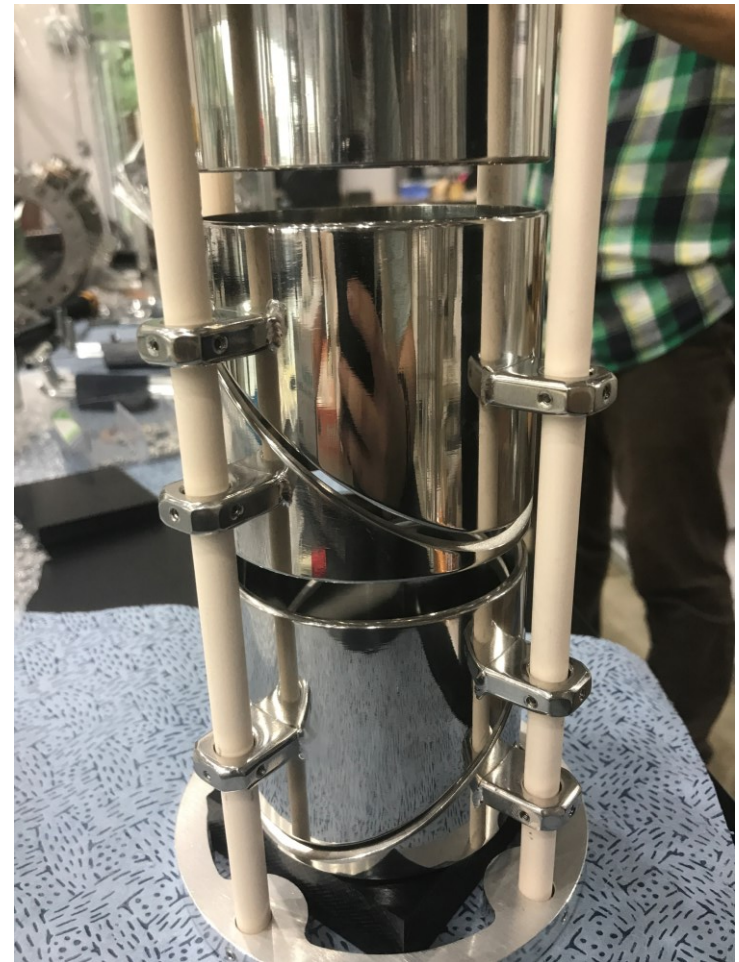


Meeting 0813

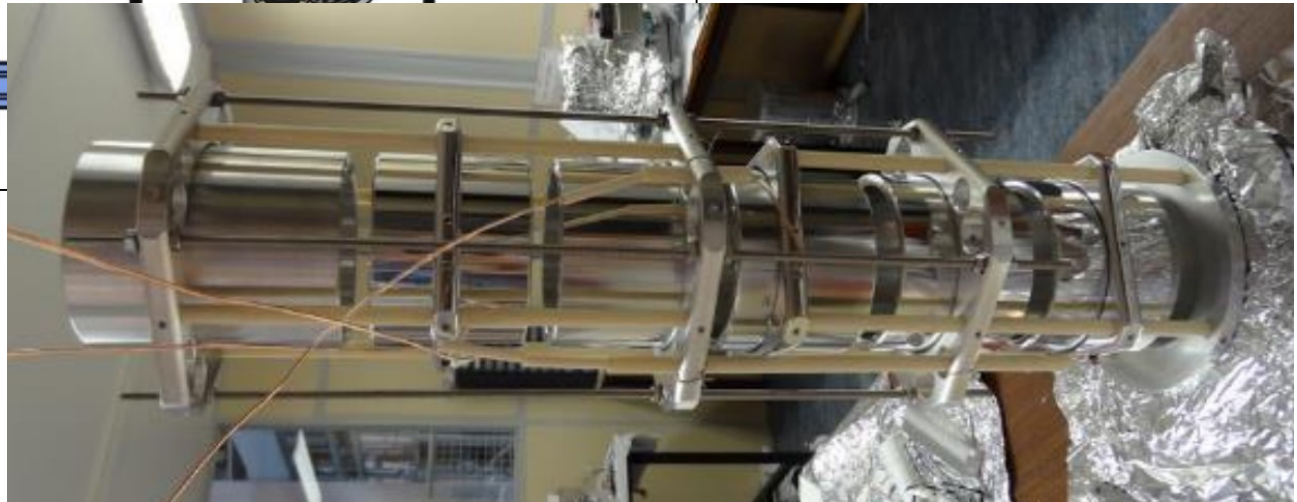
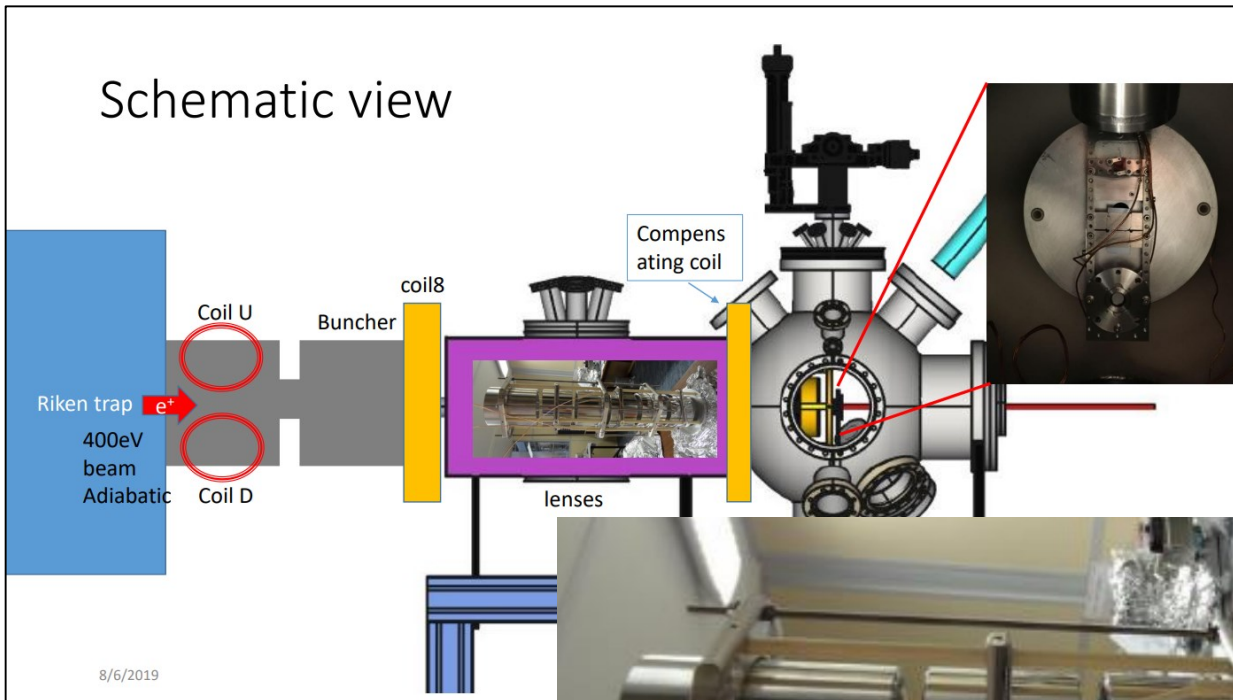
Kyoung-Hun Yoo

Einzel Lens

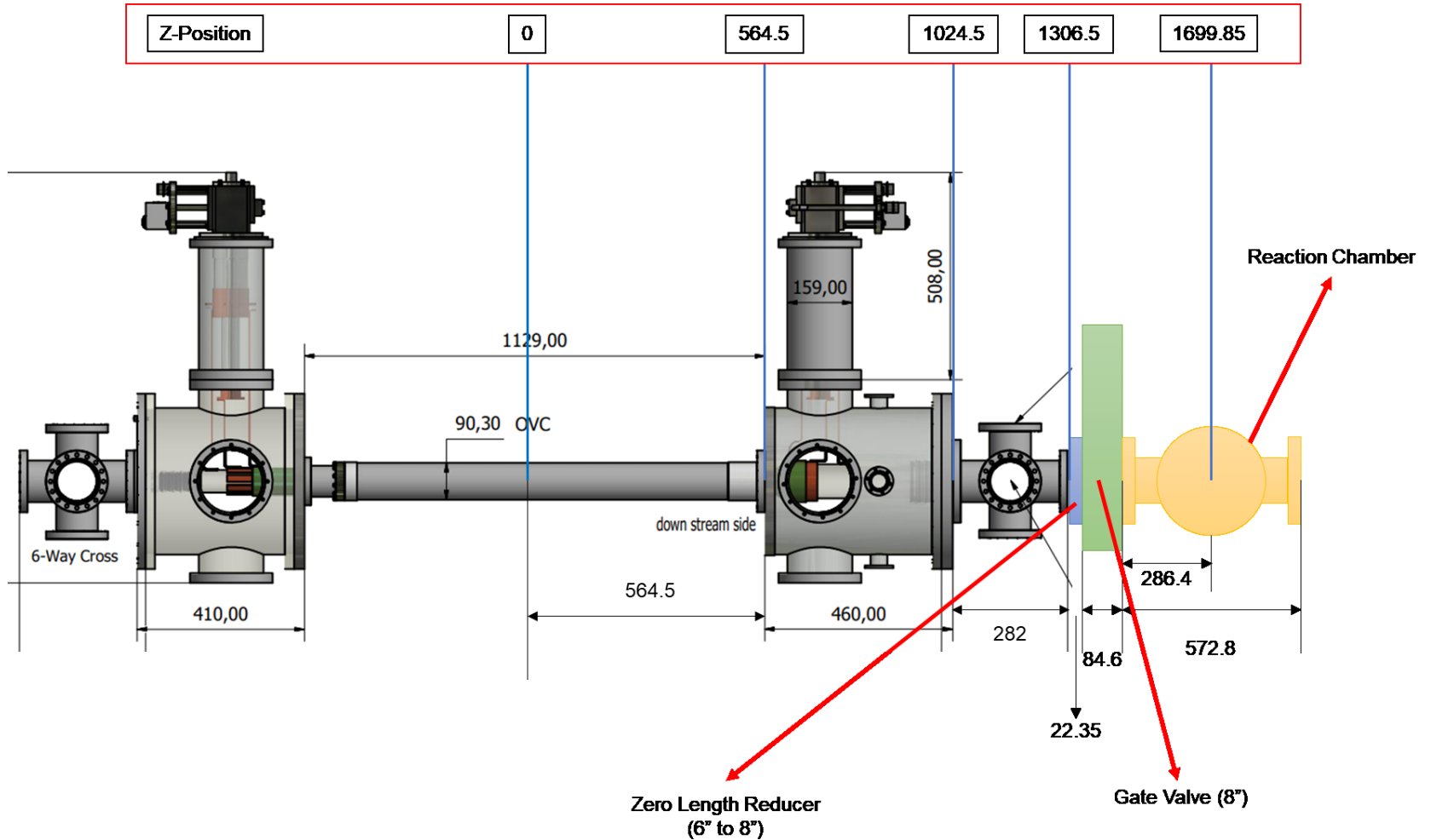


Einzel Lens

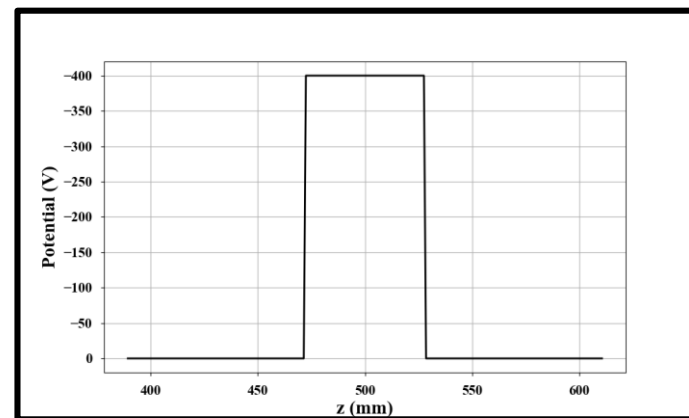
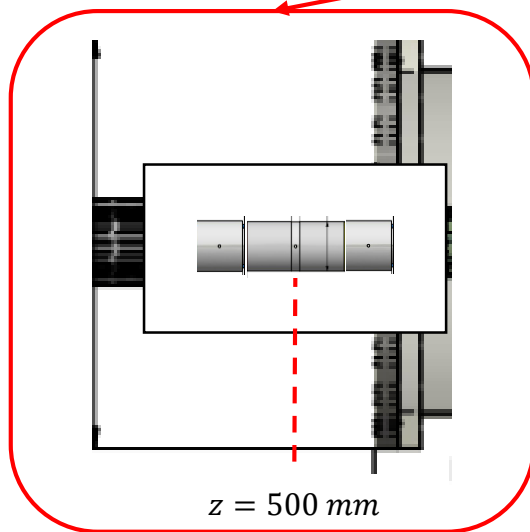
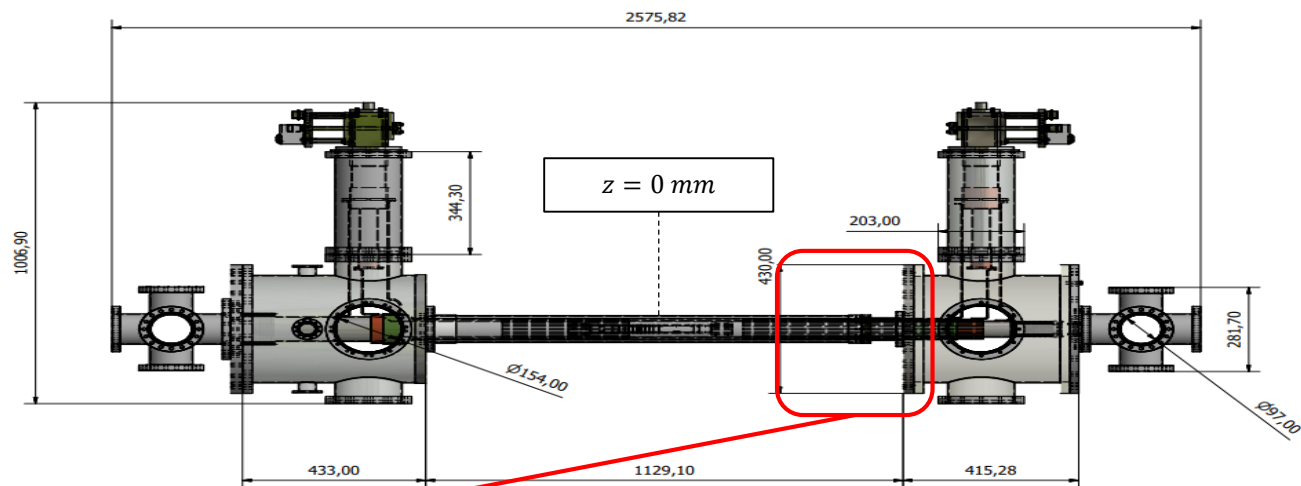
Schematic view



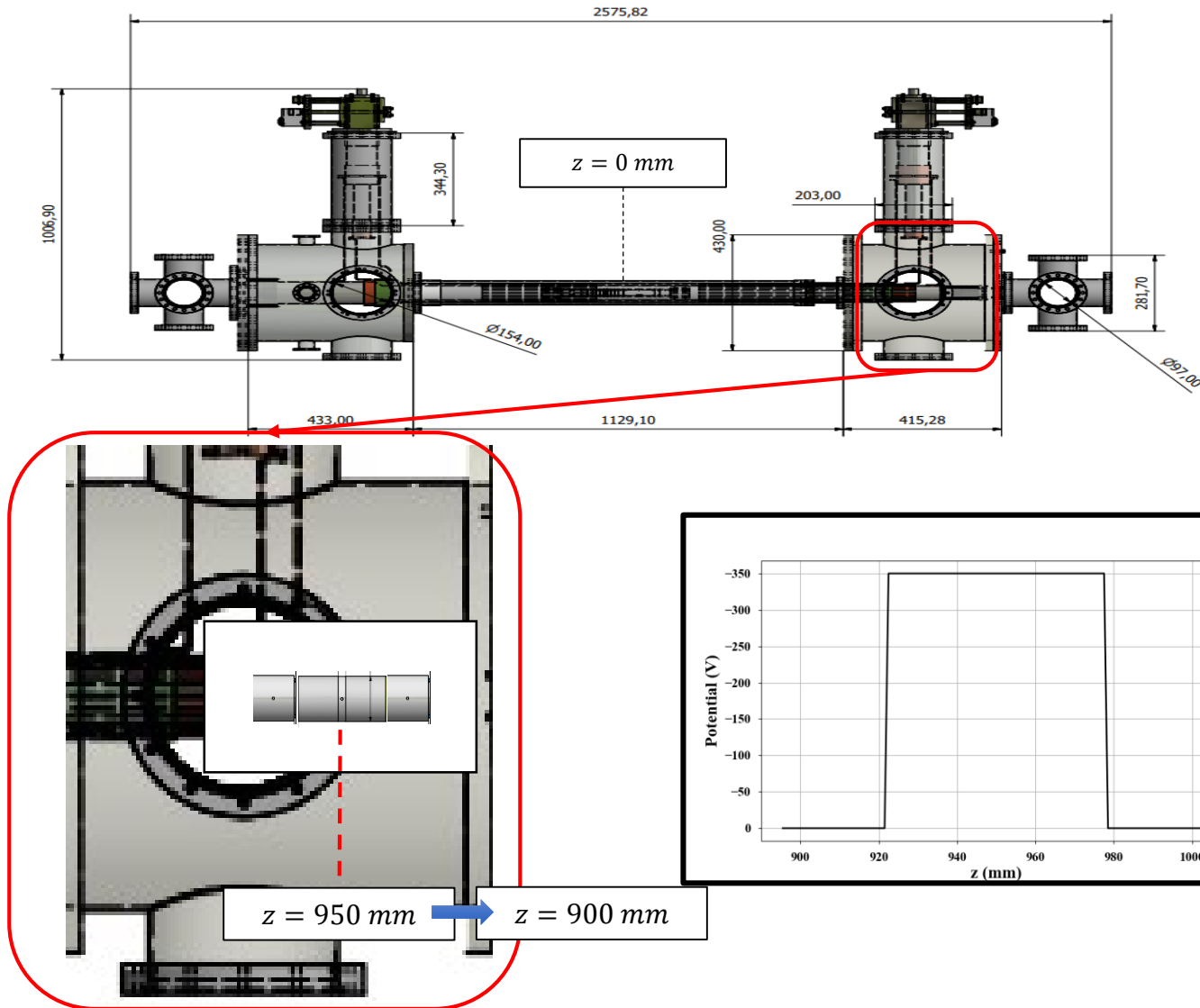
Overall Dimension



Optics Setup



Optics Setup

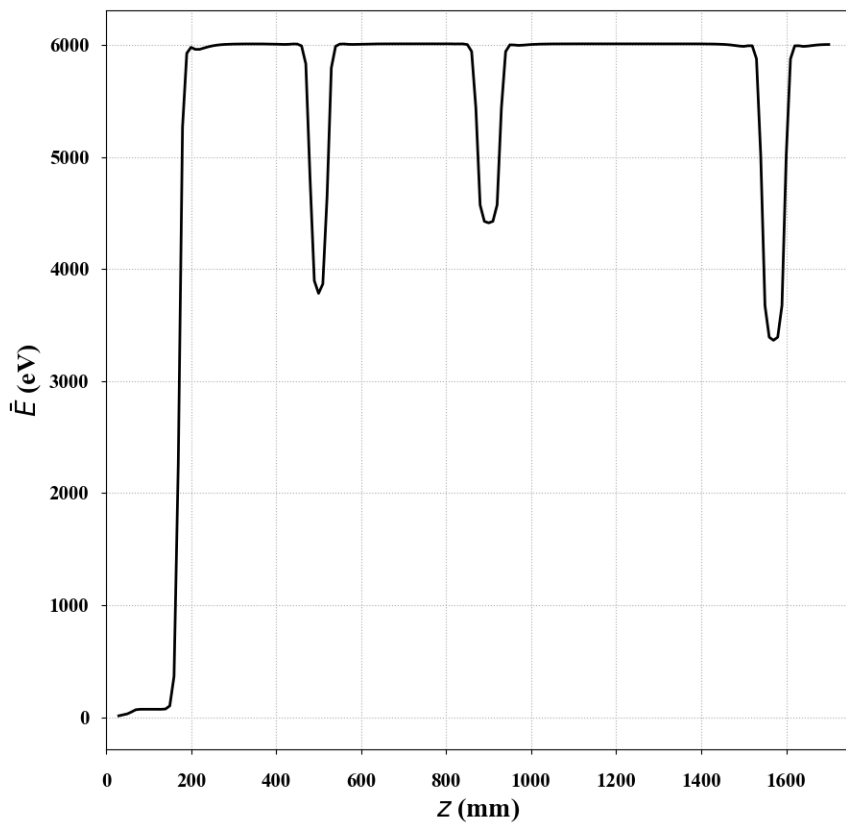


08/13/2019

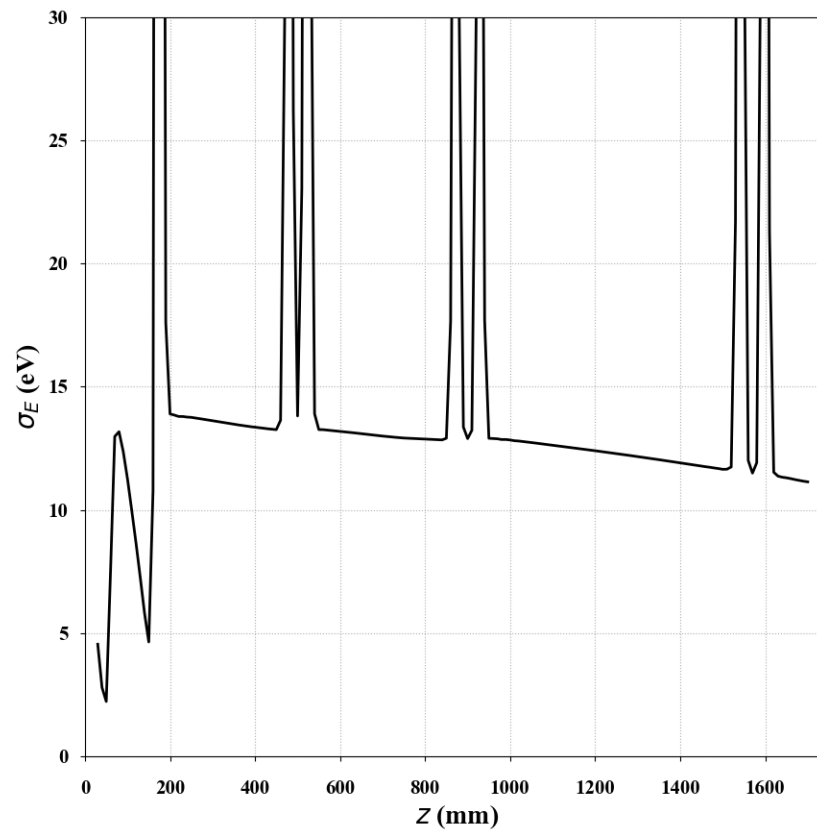


6 keV

$\langle \bar{E} \rangle$

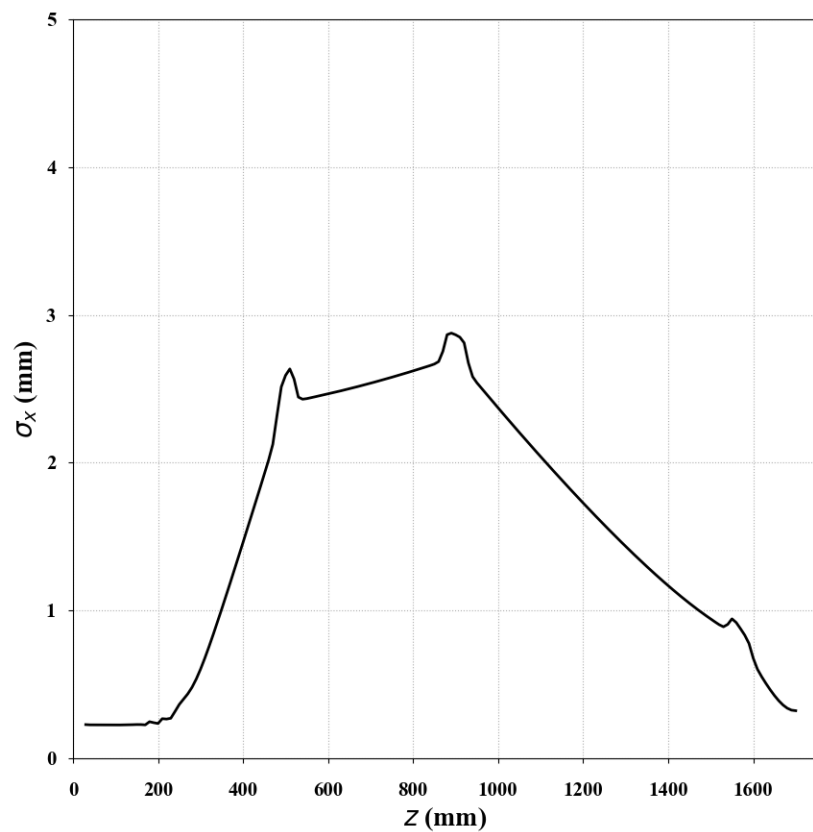


$\langle \sigma_E \rangle$

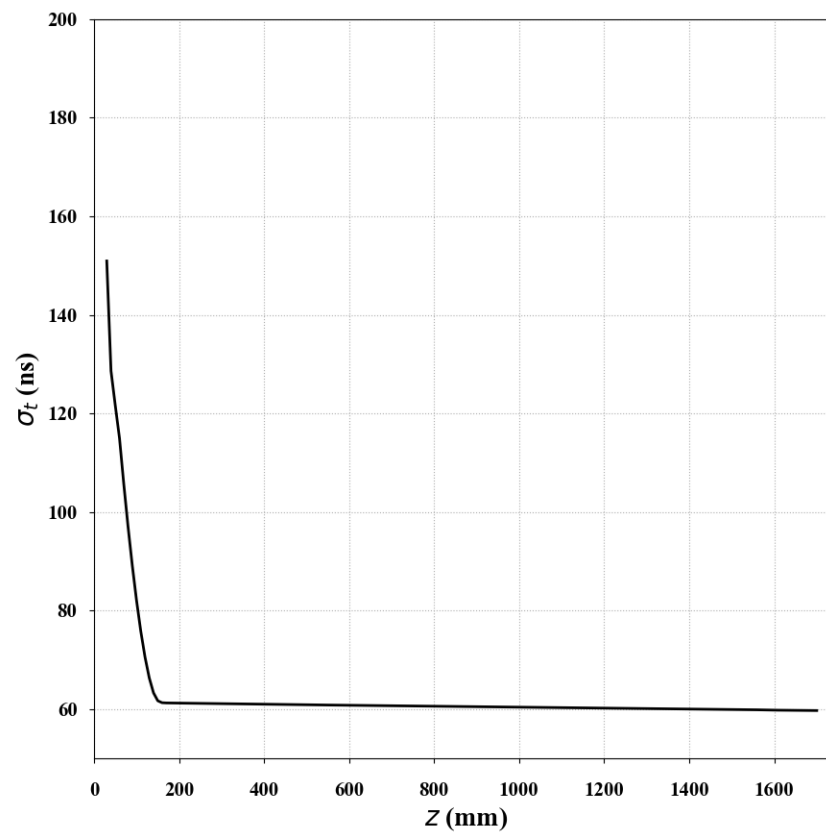


6 keV

$\langle \sigma_x \rangle$

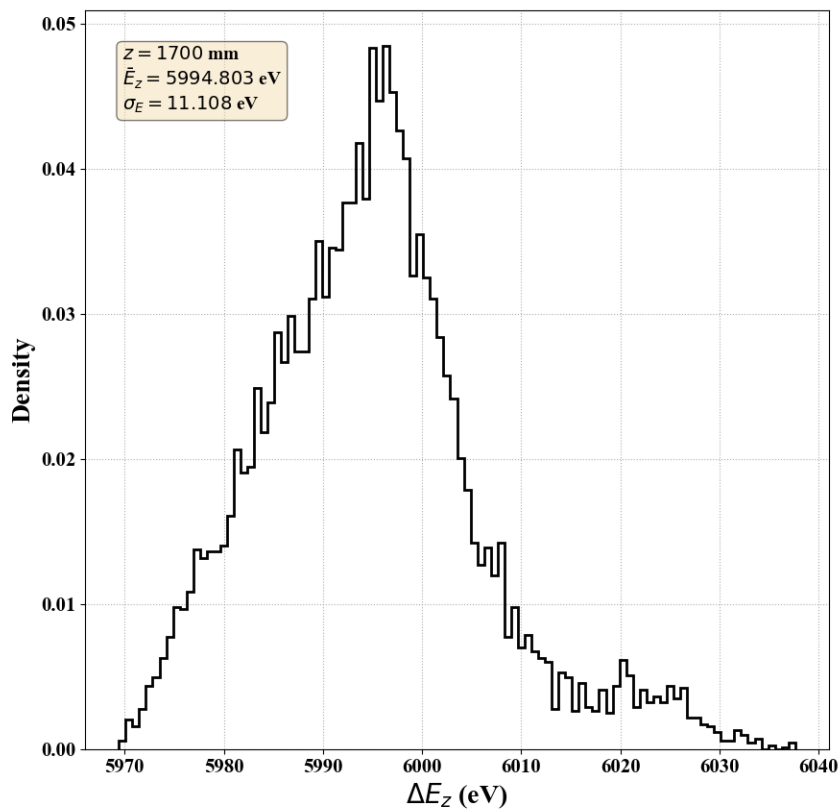


$\langle \sigma_t \rangle$

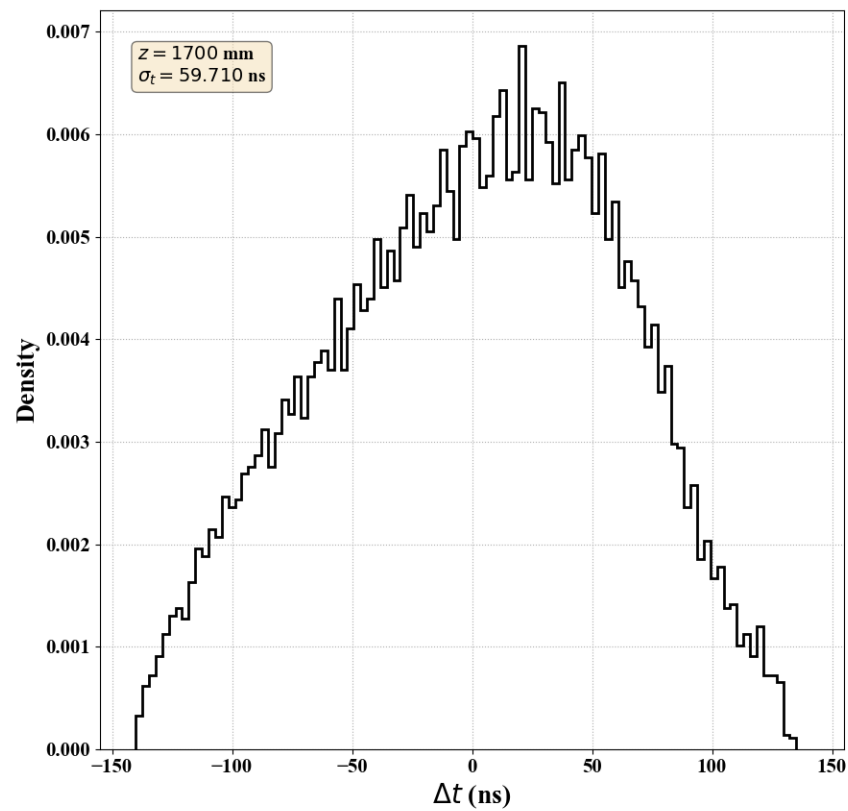


6 keV

< Energy Distribution >

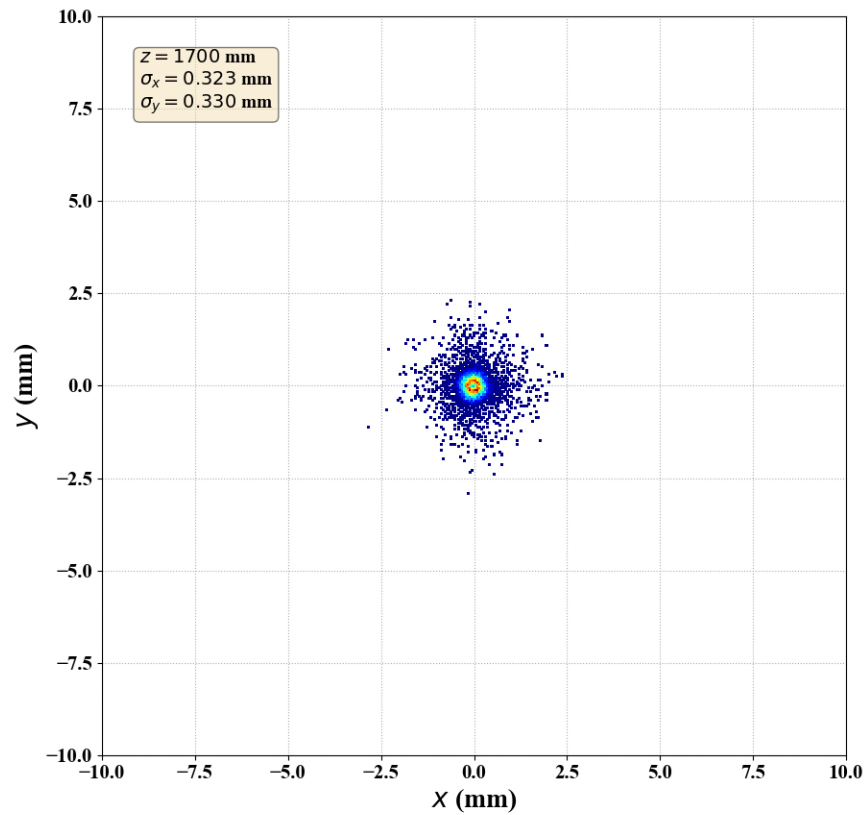


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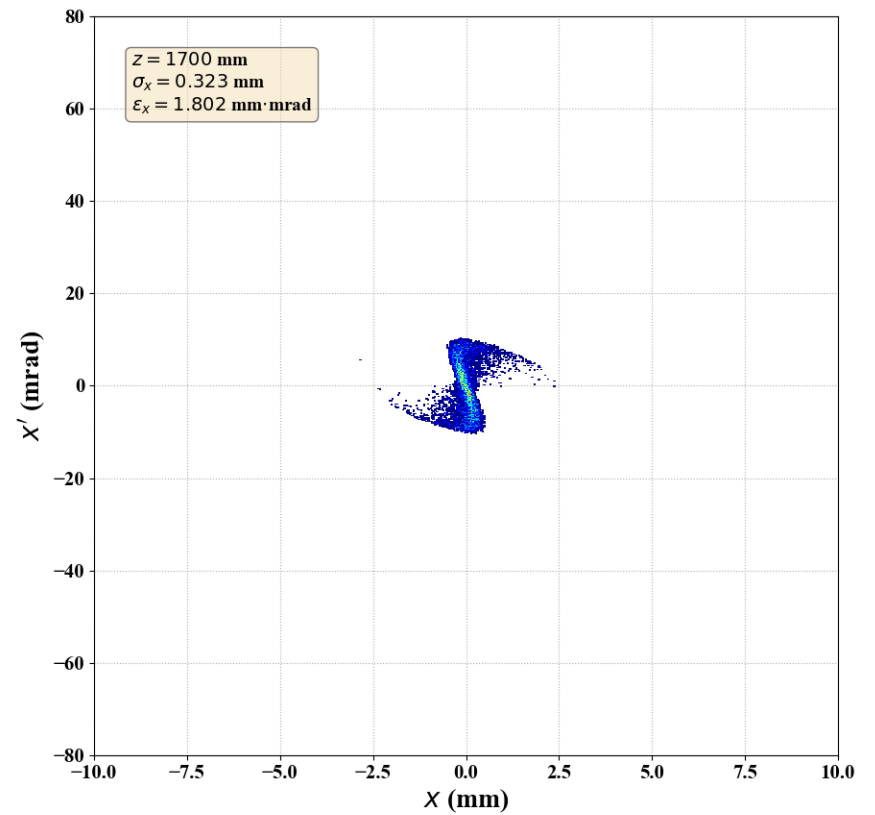


6 keV

< xy Distribution >

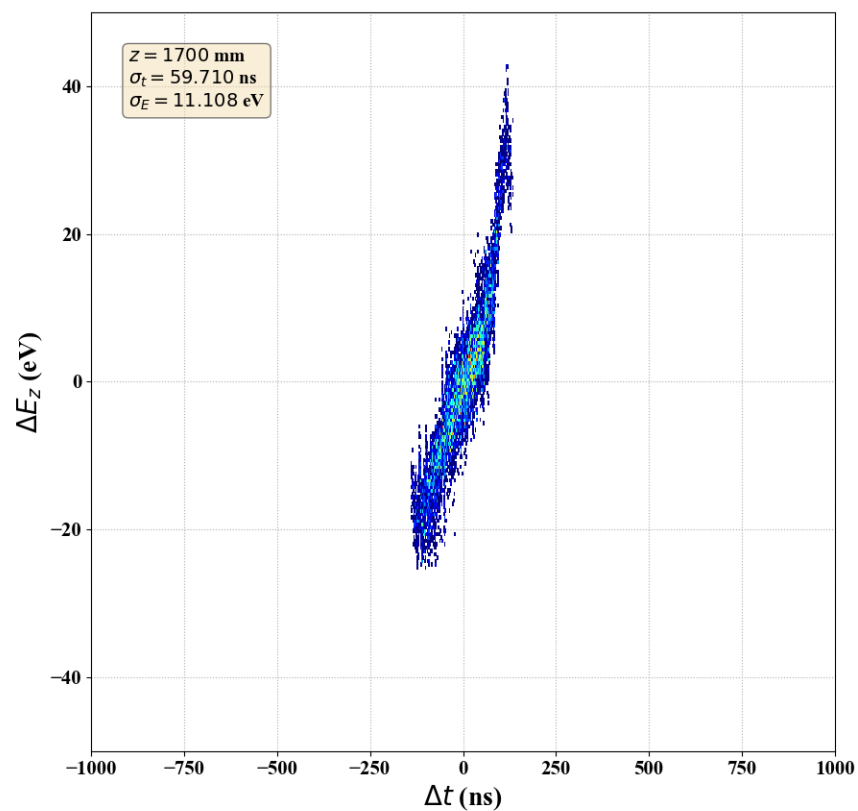


< Phase Space >



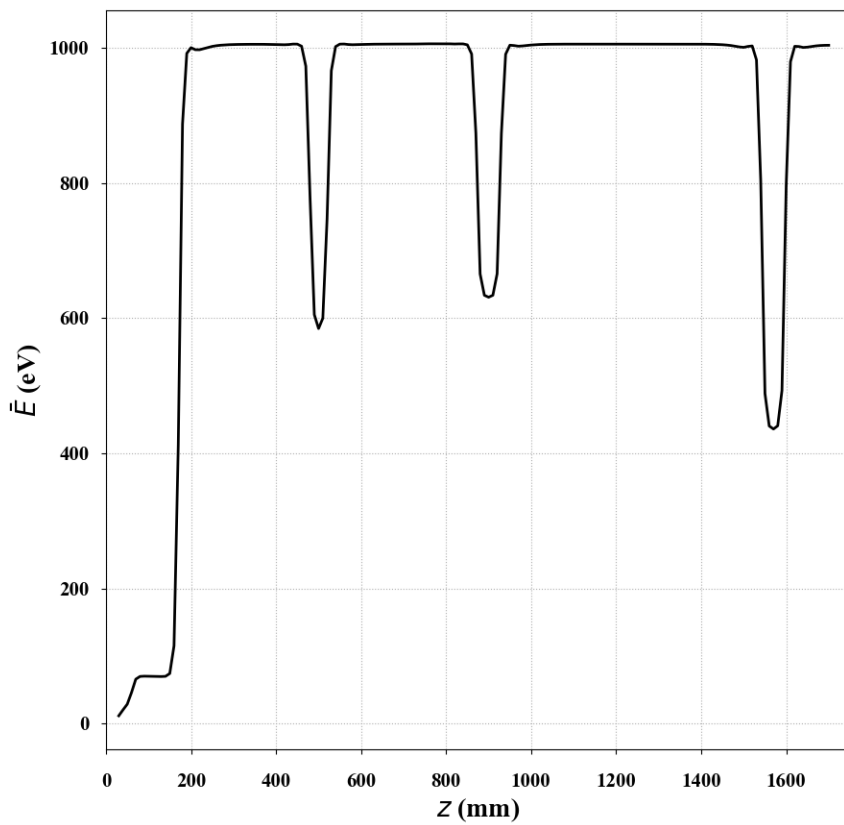
6 keV

< Phase Space >

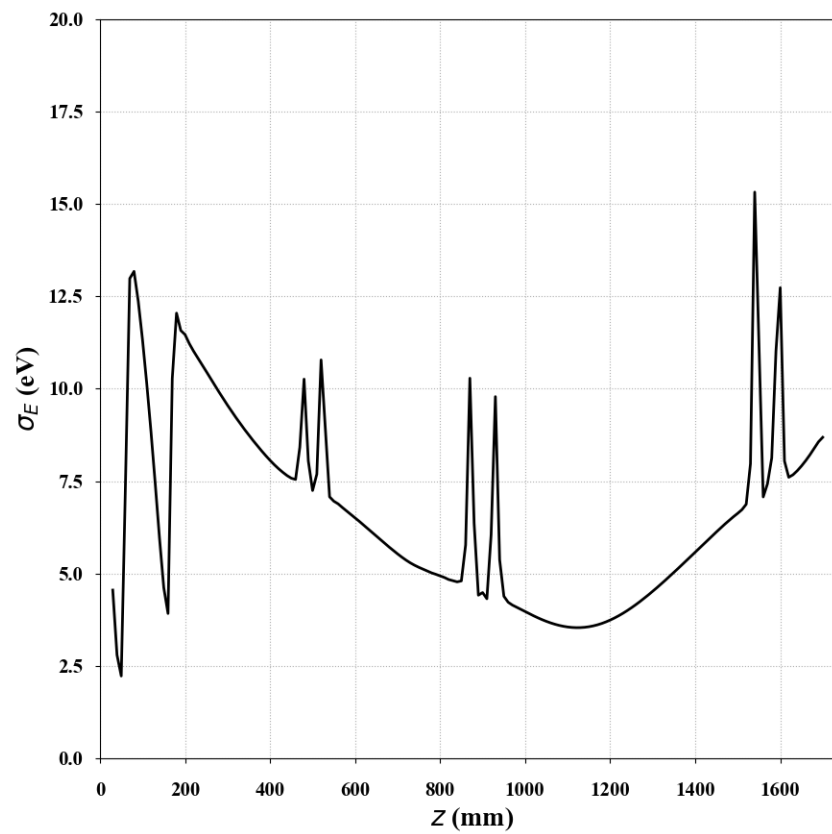


1 keV

$\langle \bar{E} \rangle$

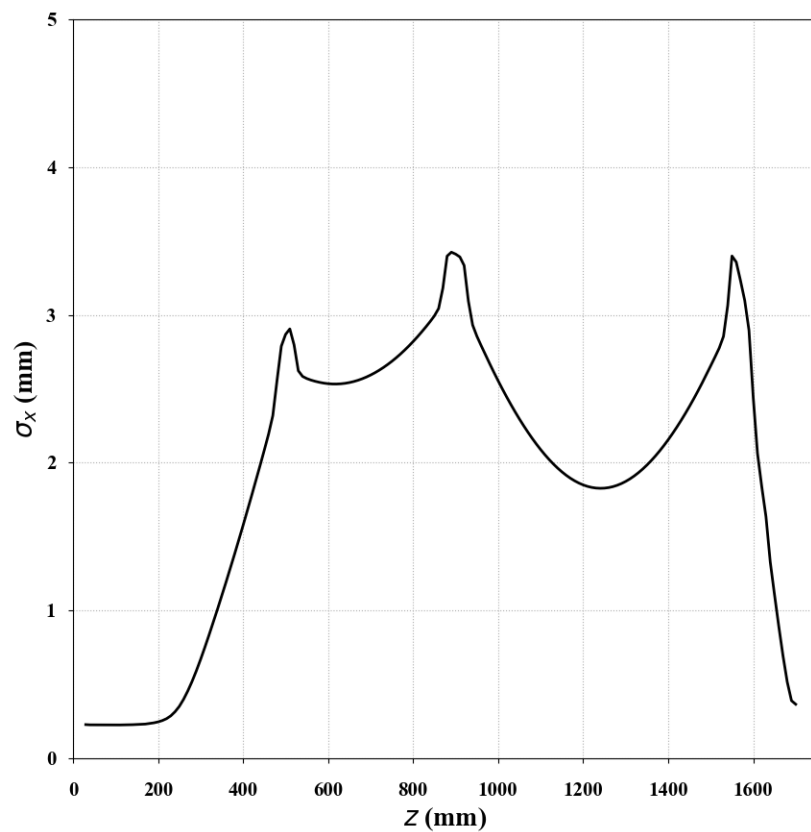


$\langle \sigma_E \rangle$

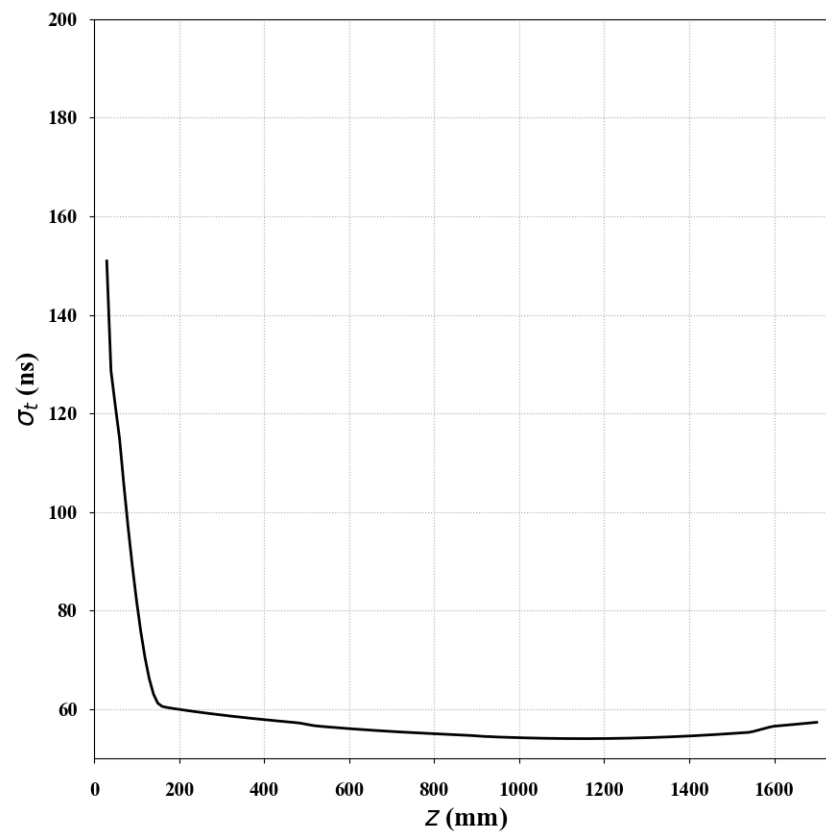


1 keV

$\langle \sigma_x \rangle$

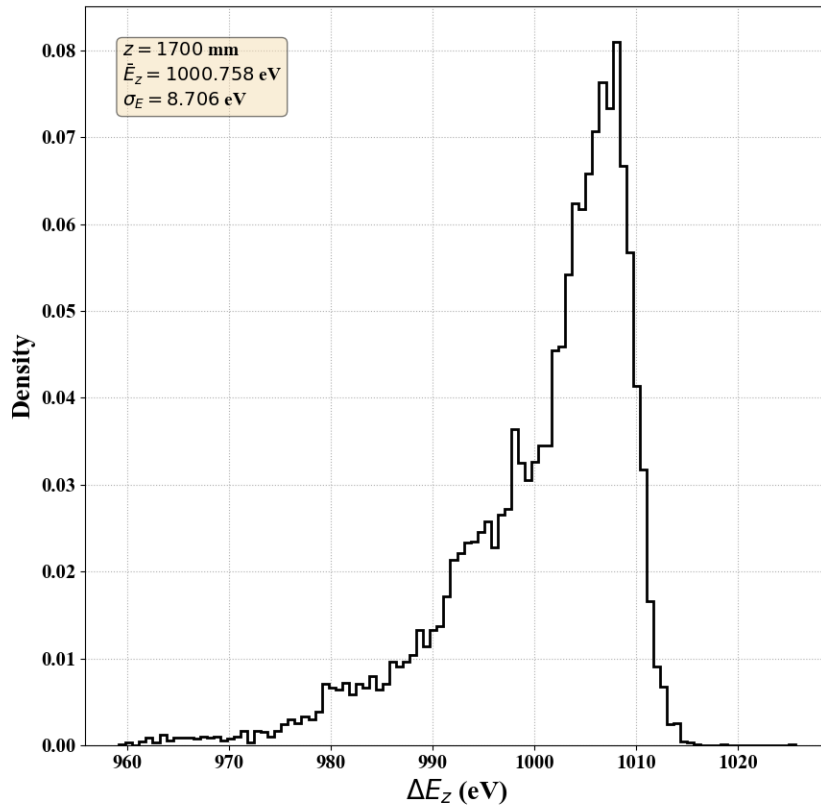


$\langle \sigma_t \rangle$

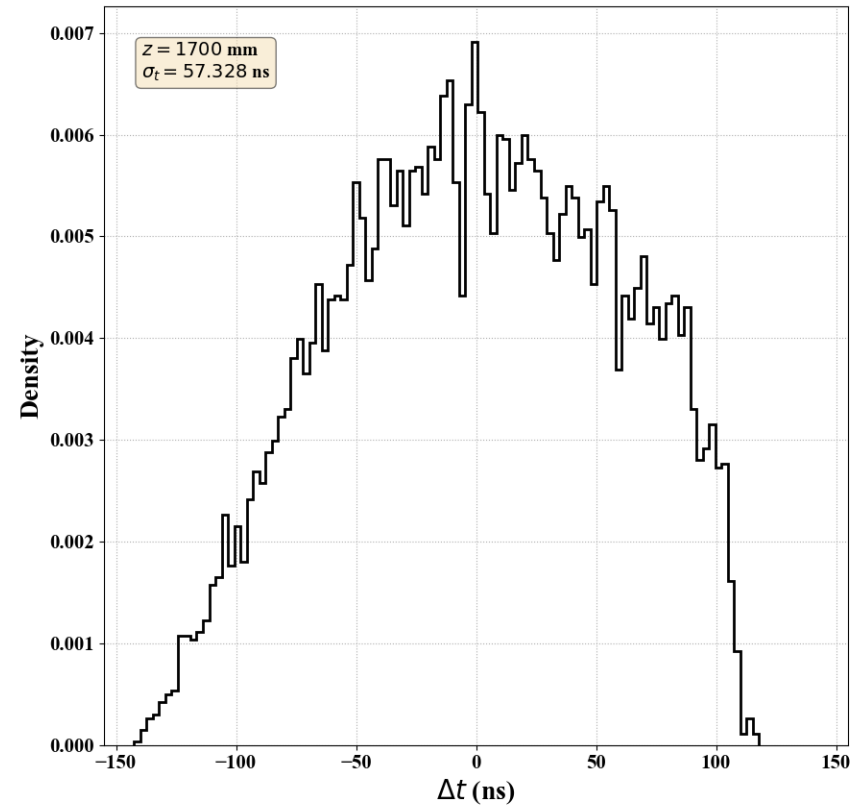


1 keV

< Energy Distribution >

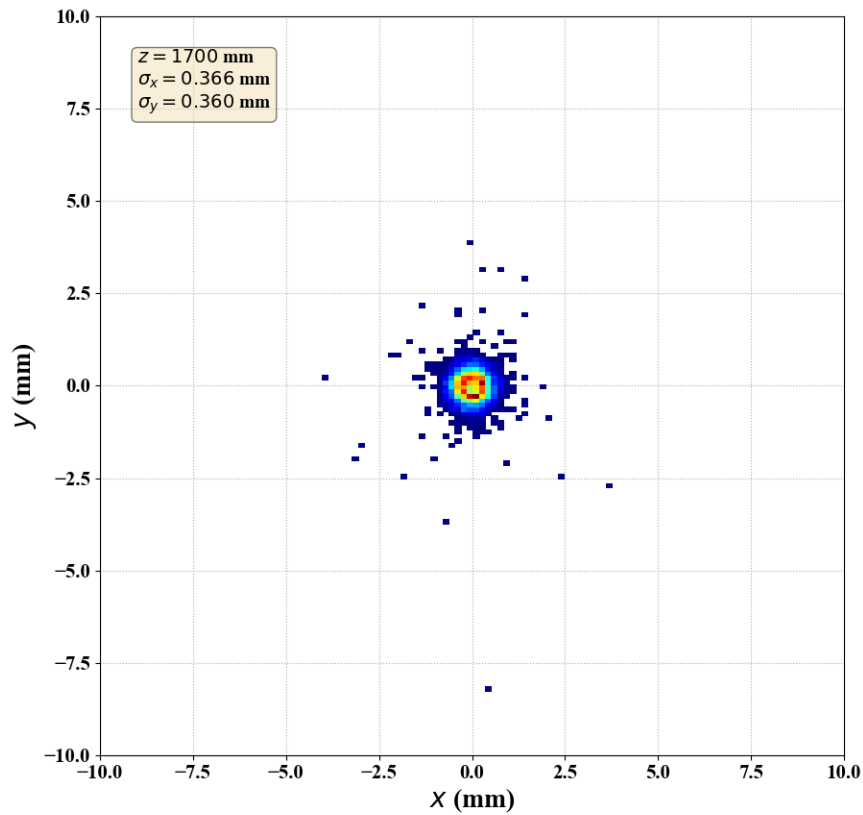


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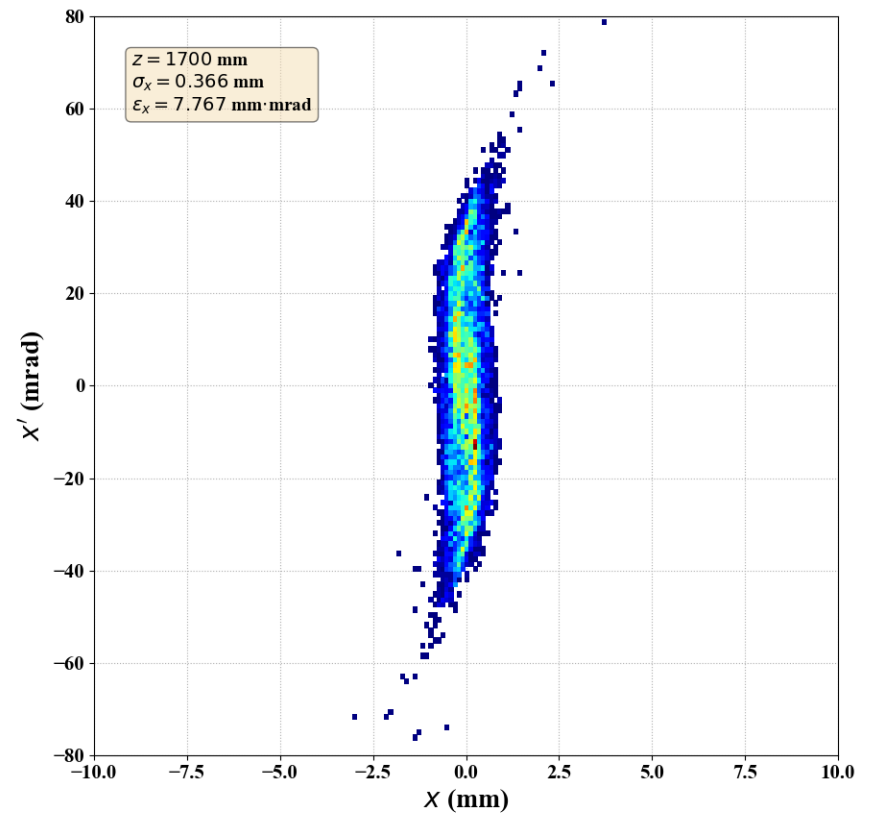


1 keV

< xy Distribution >

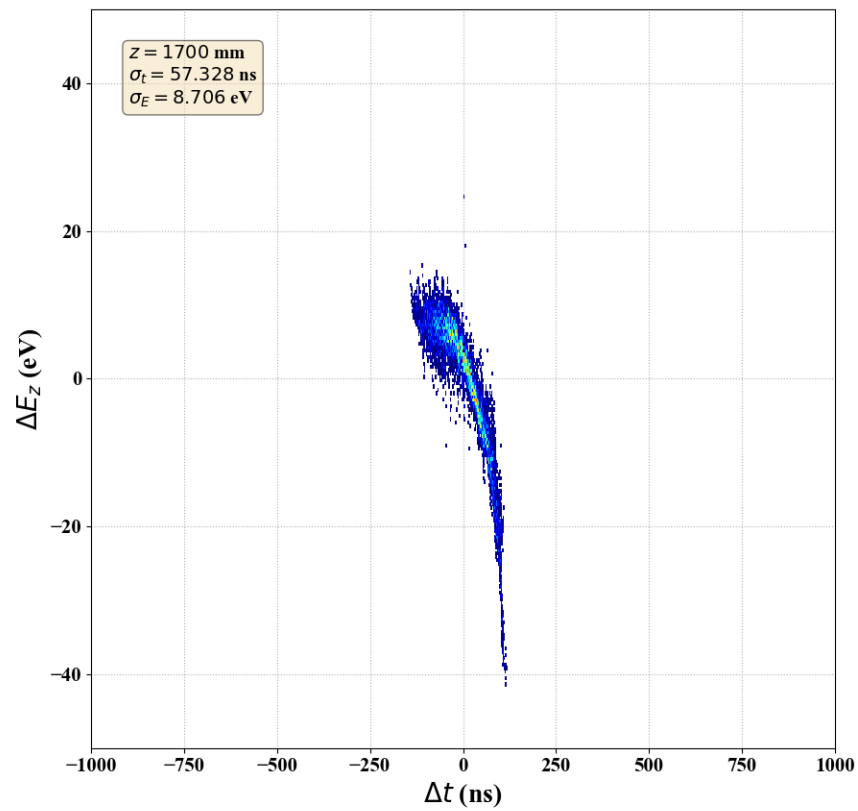


< Phase Space >



1 keV

< Phase Space >



Parameters

At $z = 1700 \text{ mm}$	6 keV	1 keV
Mean Longitudinal Energy $\overline{E_z} \text{ (keV)}$	6.00	1.00
Longitudinal Energy Spread $\sigma_{Ez} \text{ (eV)}$	11.11	8.71
Bunch Length $\sigma_t \text{ (ns)}$	59.71	57.33
Beam Size $\sigma_x \text{ (mm)}$	0.323	0.366
Emittance $\epsilon_x \text{ (mm} \cdot \text{mrad)}$	1.802	7.767