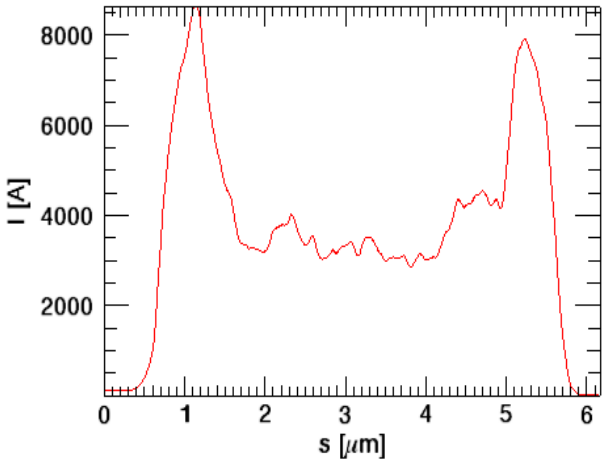
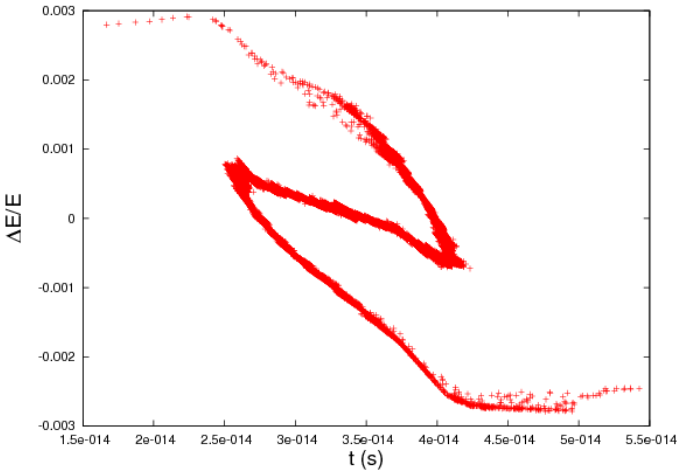
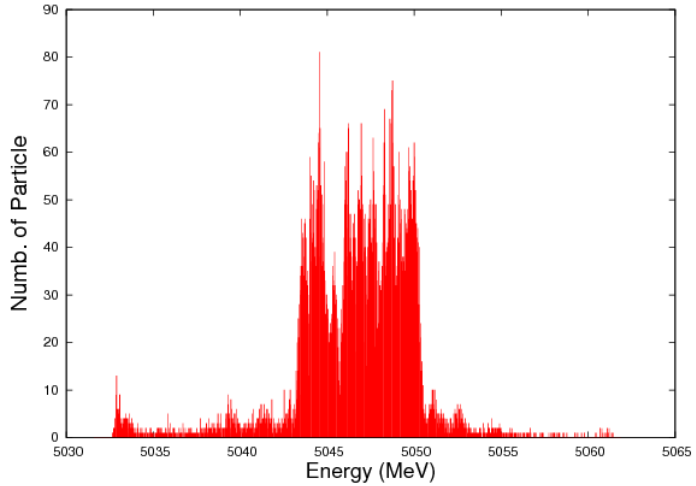
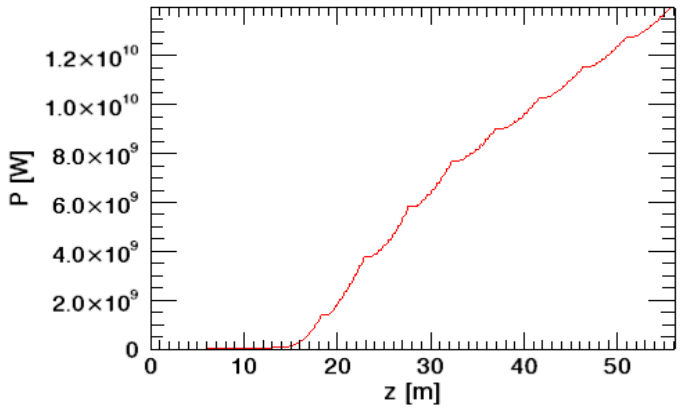
1. Beam

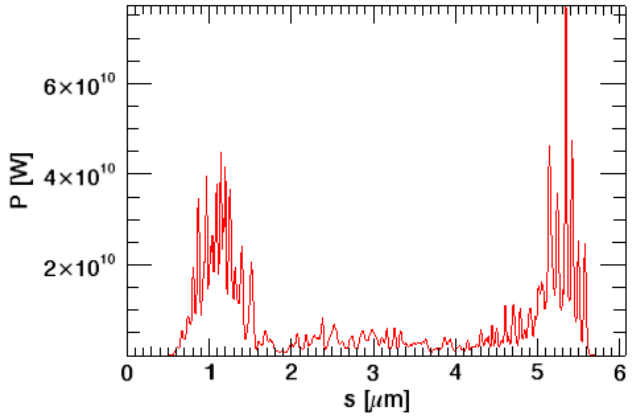


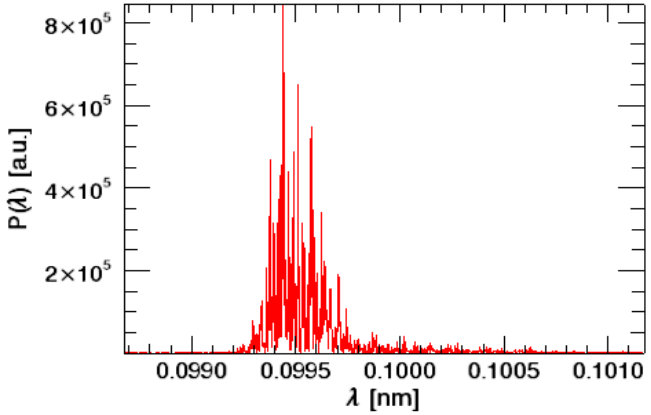




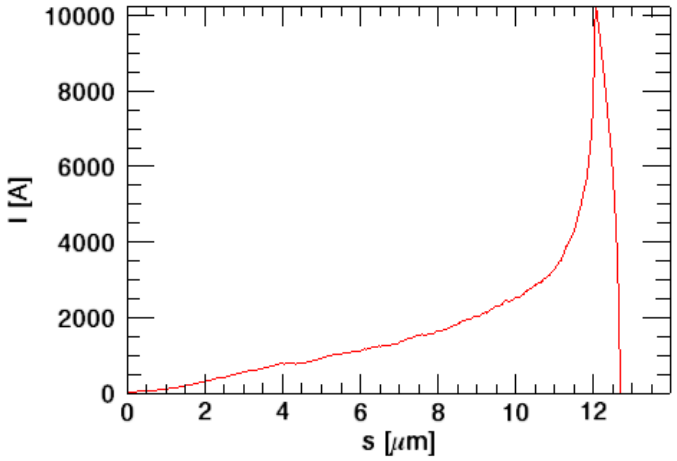
1 A, Profile and spectrum graphics are at saturation z=30 m

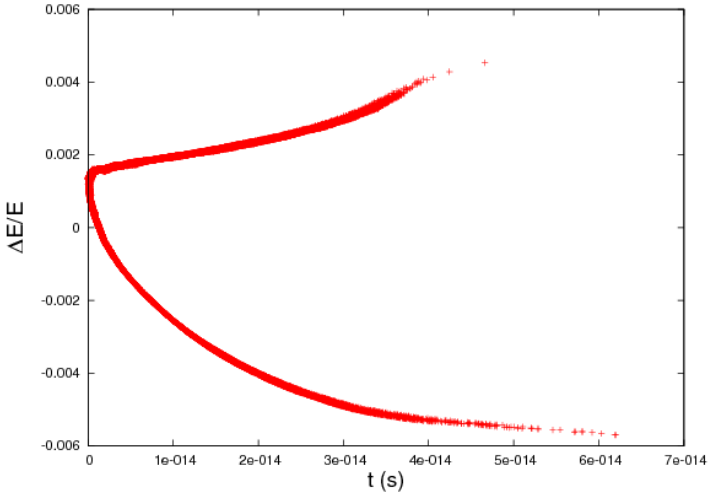


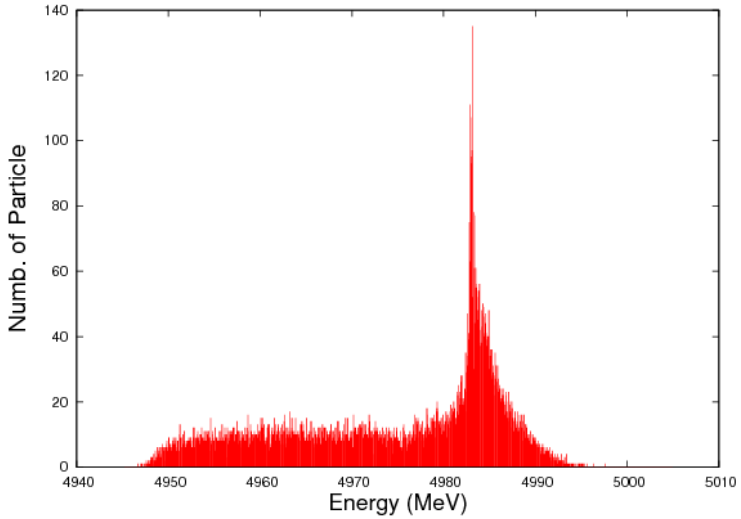




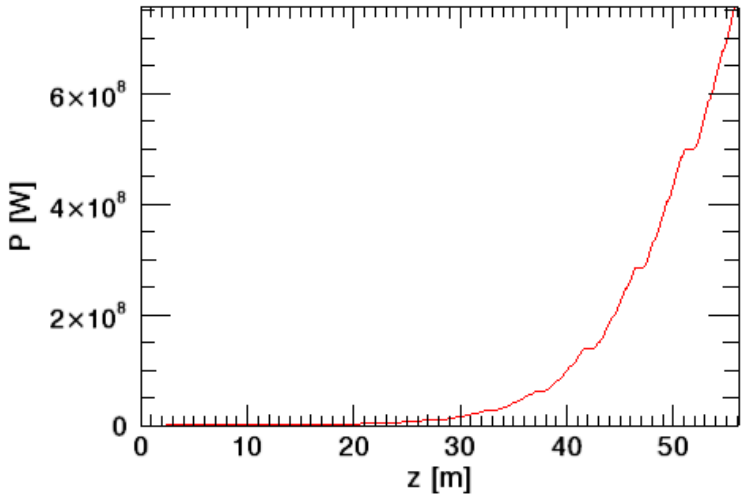
2. Beam

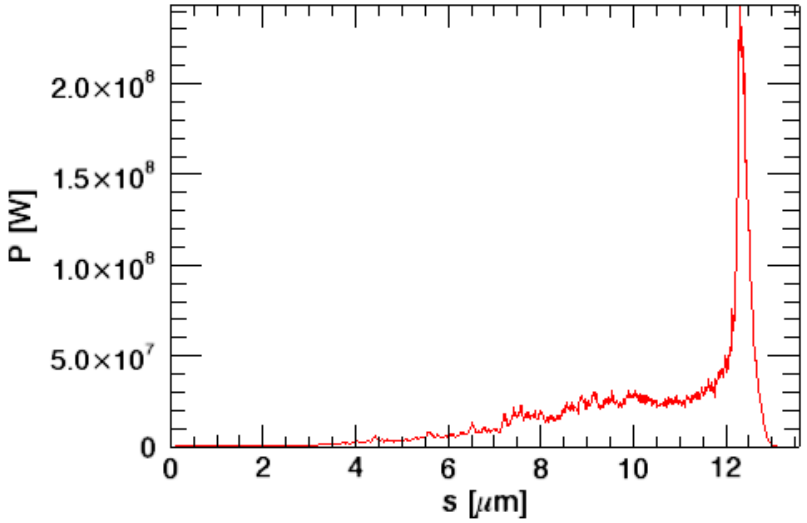


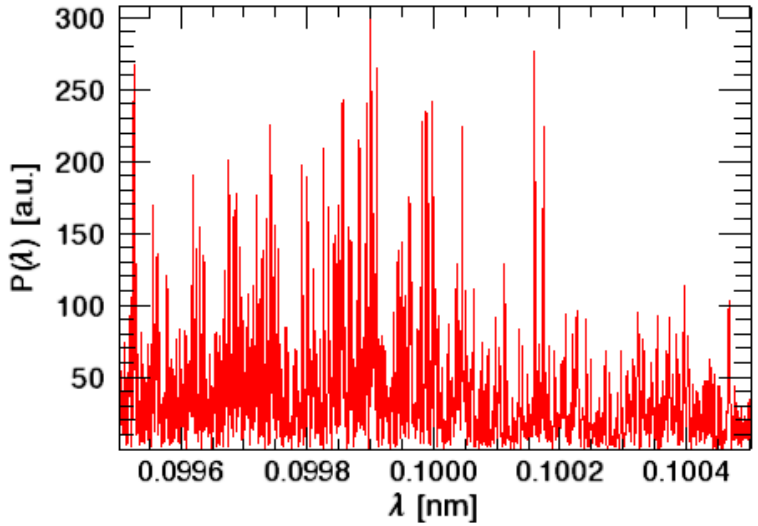




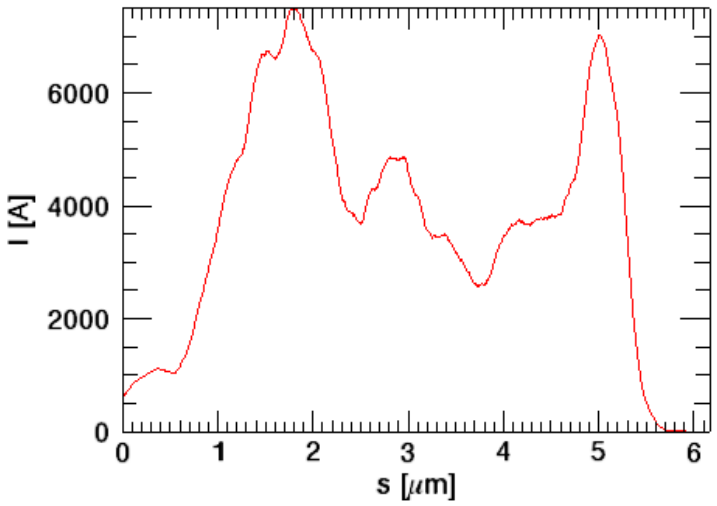
1 A, Profile and spectrum graphics are at z=30 m

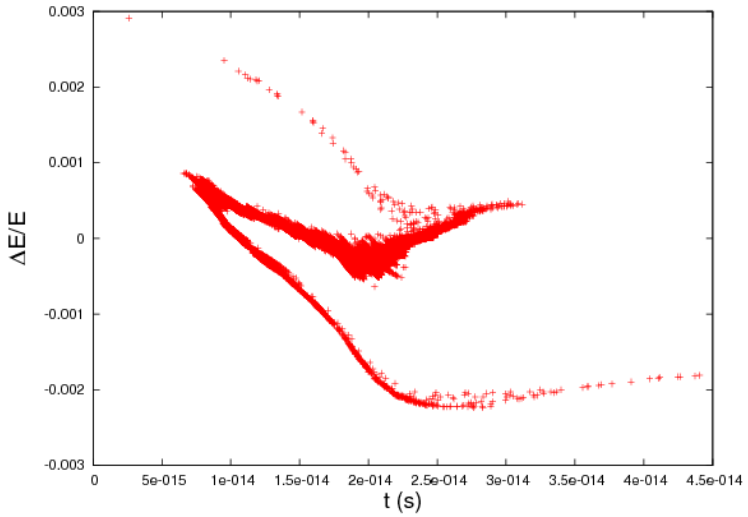


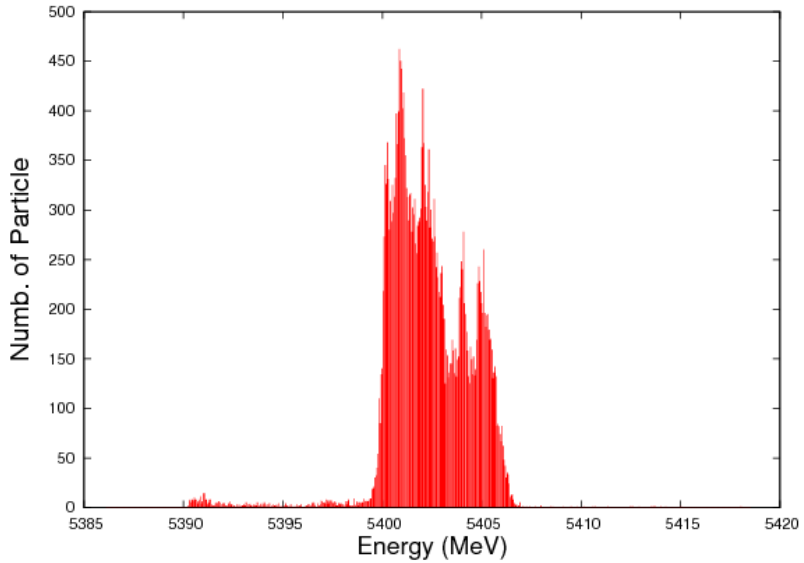




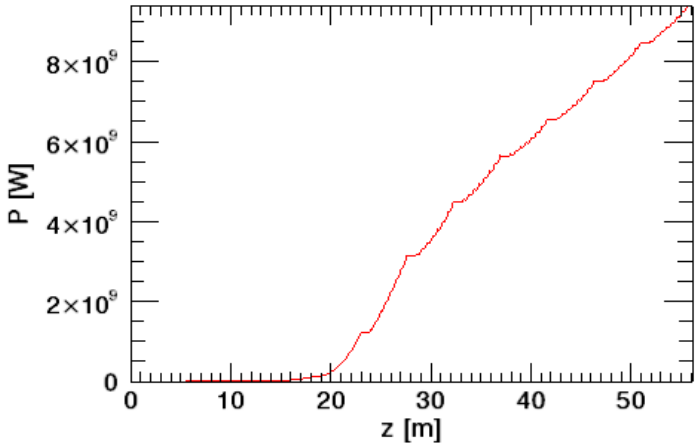
3. Beam

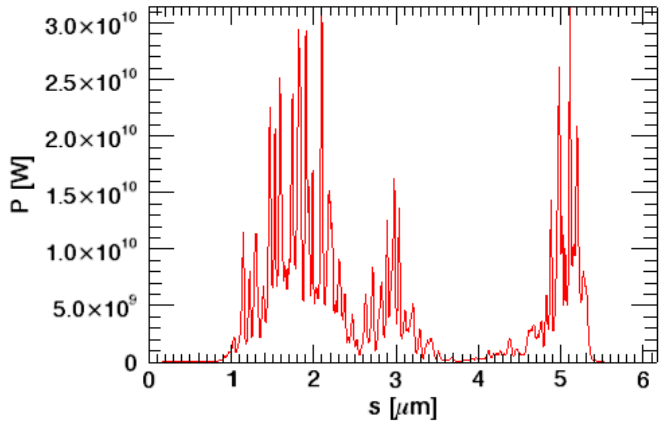


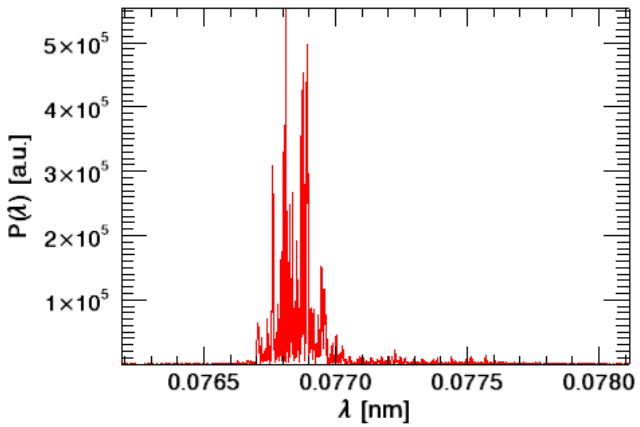




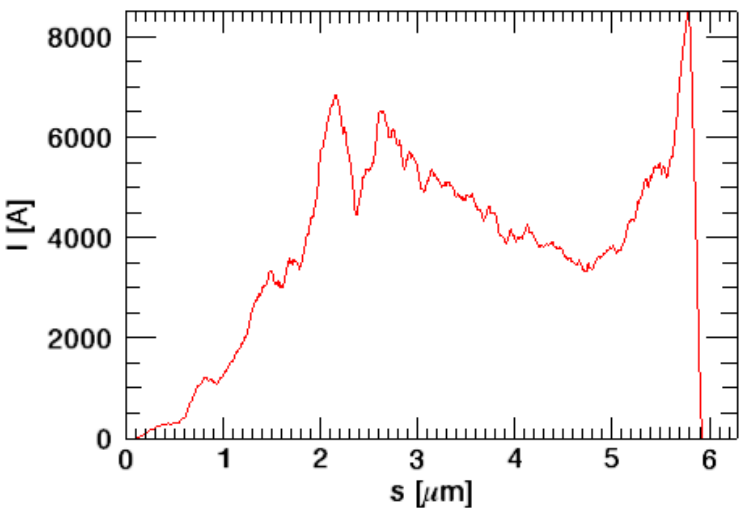
0.76 A, Profile and spectrum graphics are at saturation z=30 m

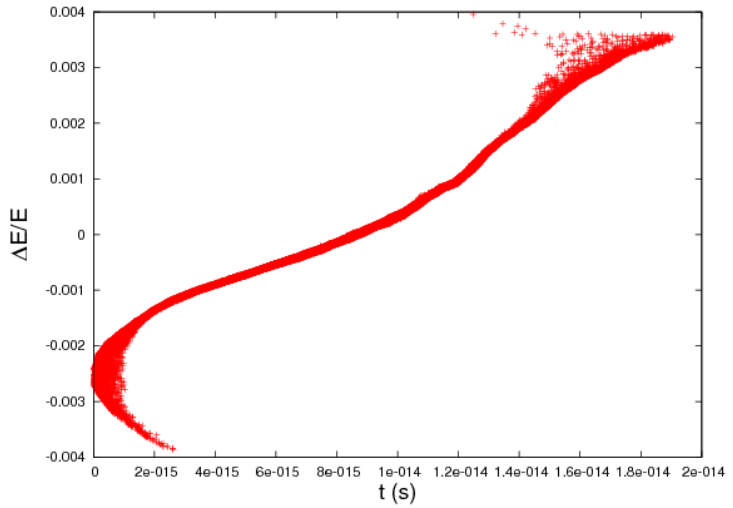


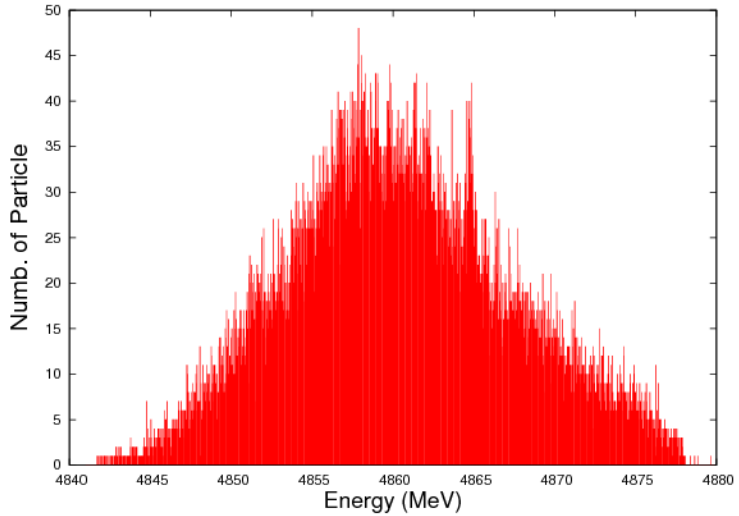




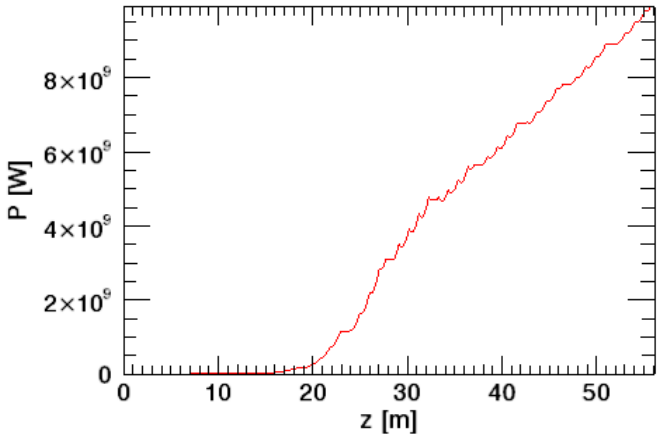
4. Beam

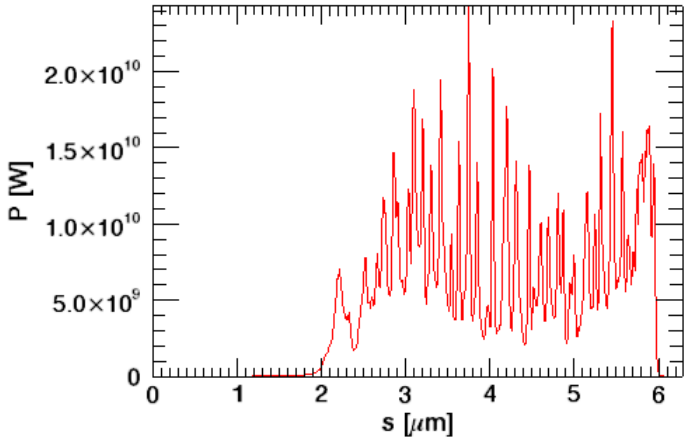


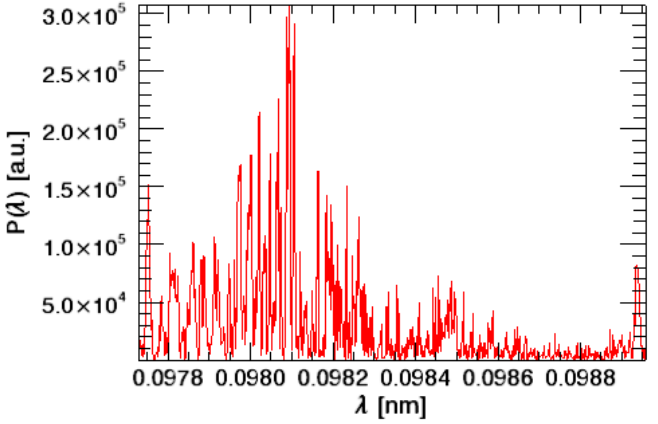




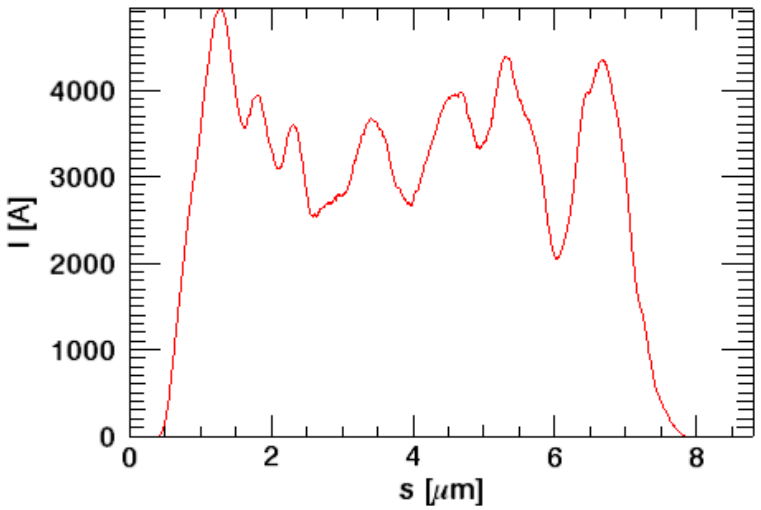
1 A, Profile and spectrum graphics are at saturation z=30 m

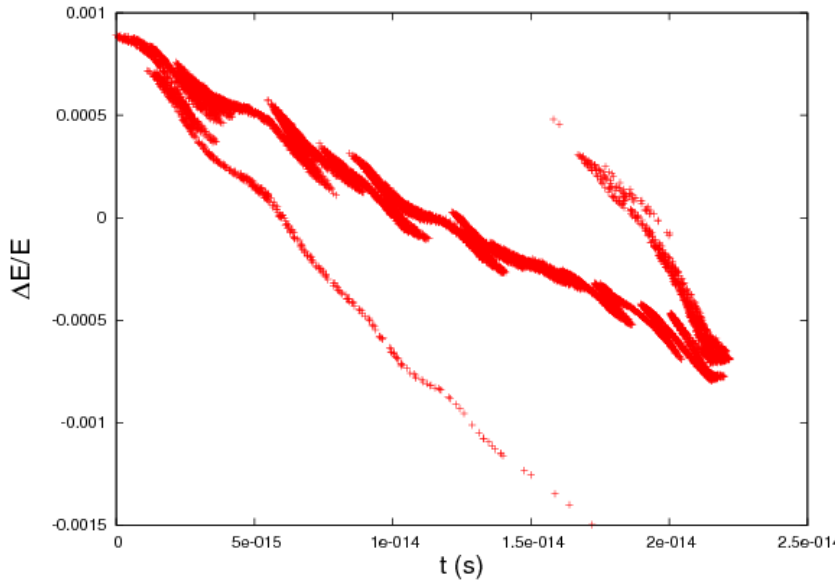


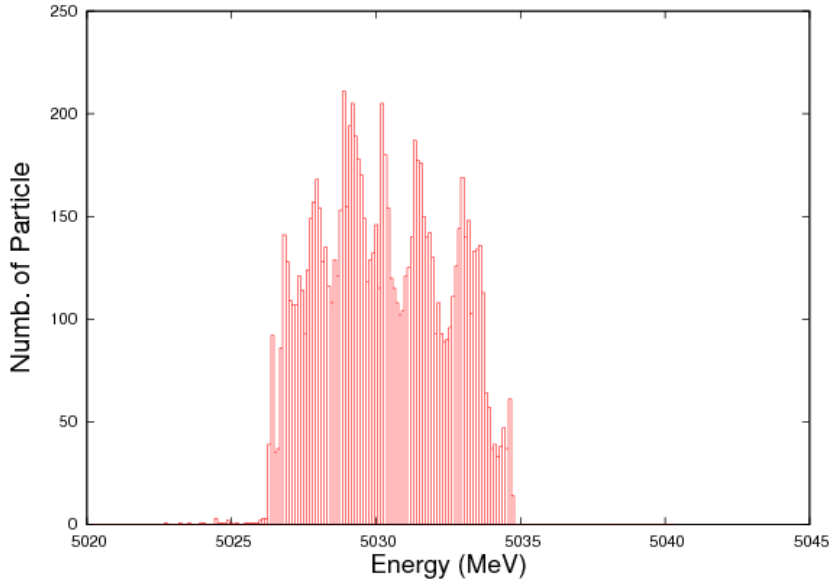




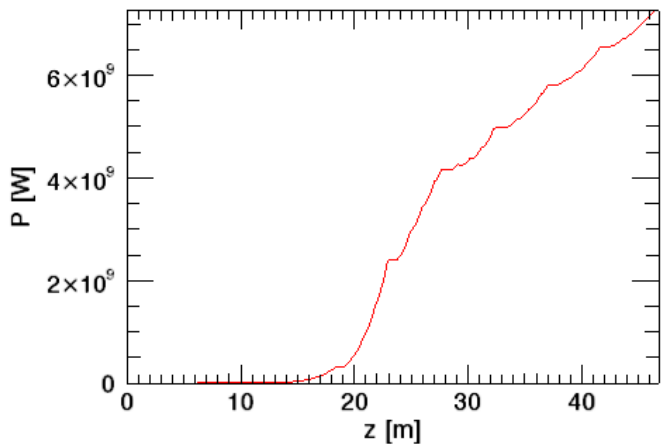
5. Beam

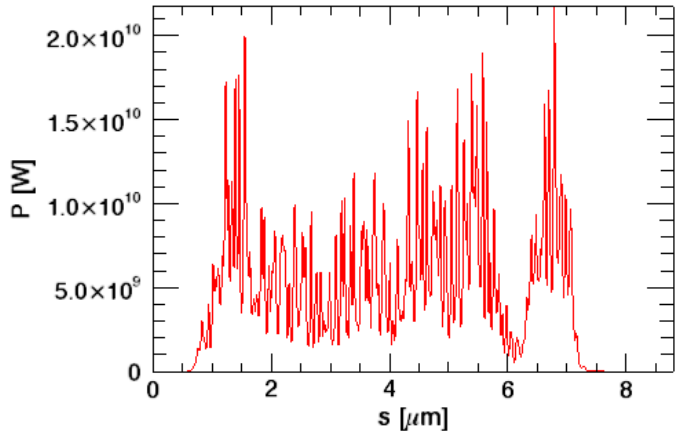


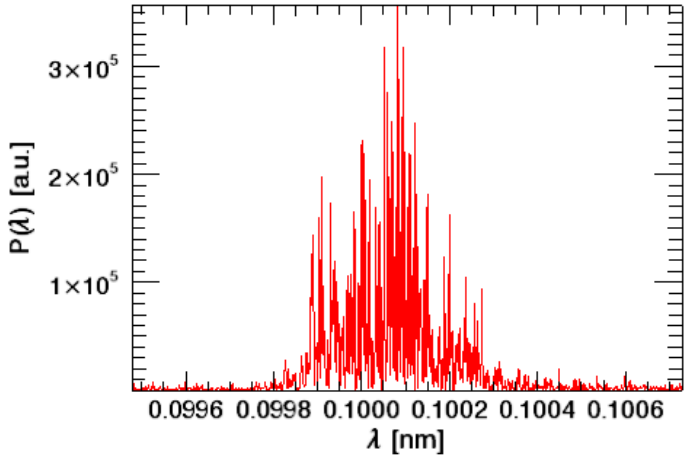




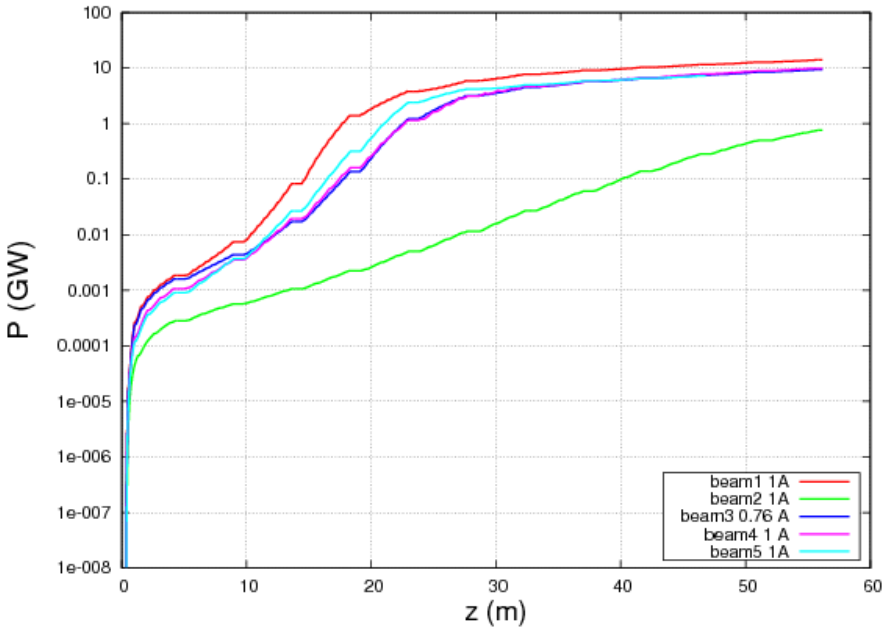
1 A, Profile and spectrum graphics are at saturation z=30 m

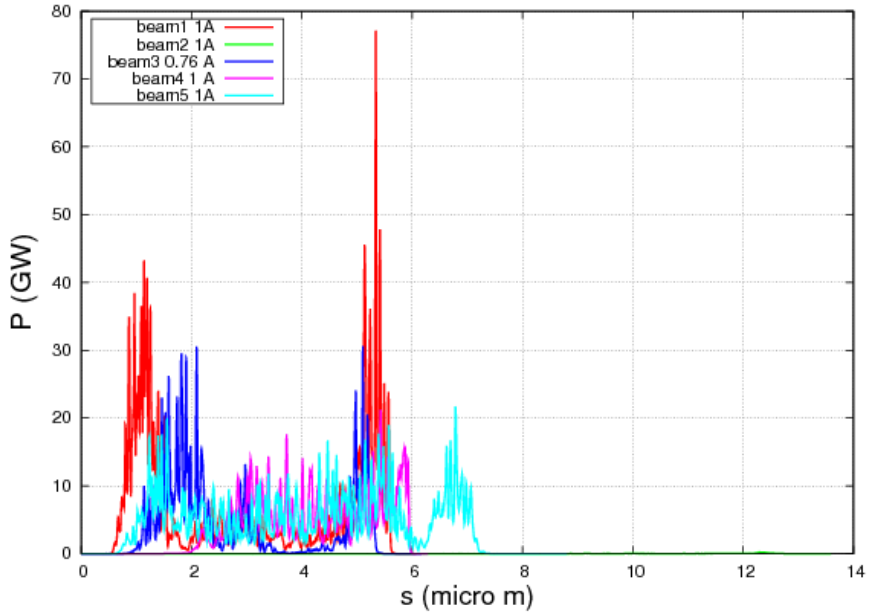


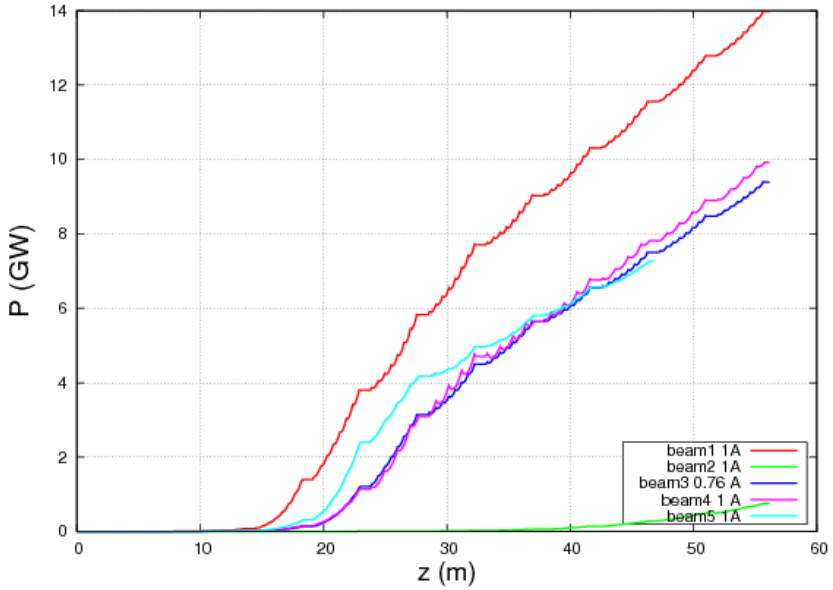


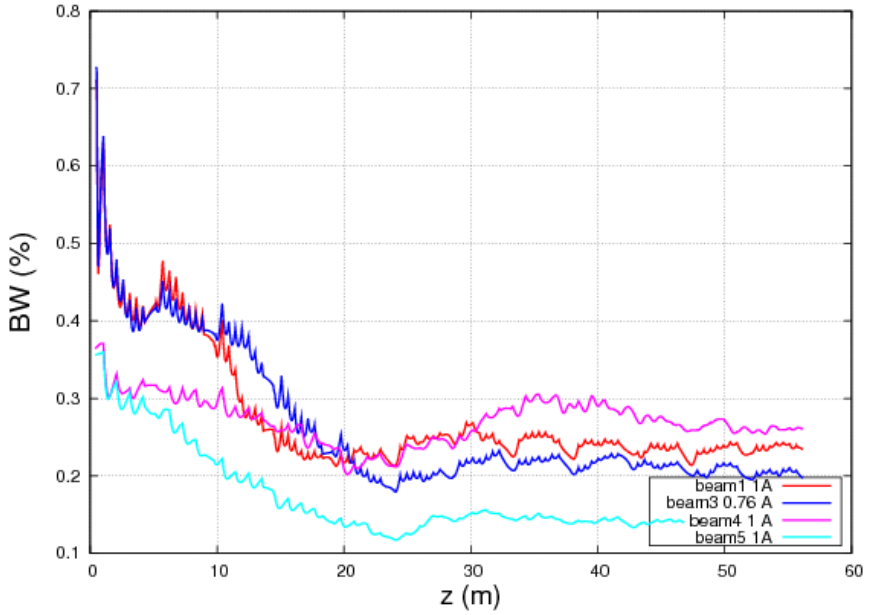


Comparision Plots









From LCLS-II FDR
We can compare the shape with it.

2 keV 100 pC 4.0 GeV

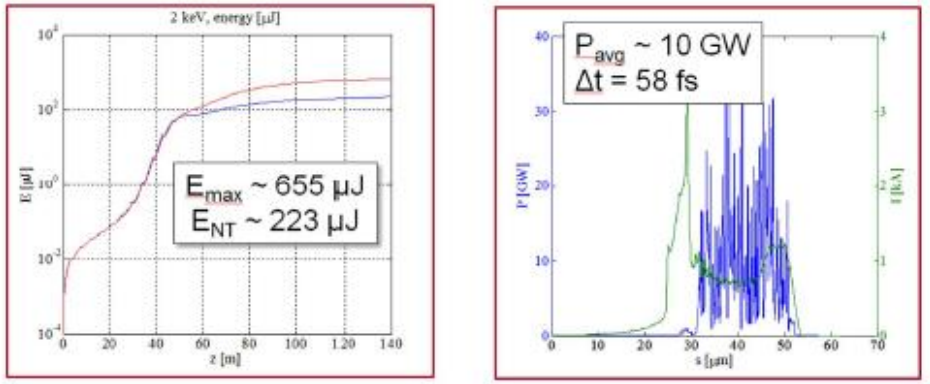


Figure 3-19. **Genesis simulation of IMPACT beam in HXR at 2 keV with photon pulse energy (left) for both tapered and untapered undulator configurations; power and current profile versus bunch longitudinal position (right) for the tapered case.**

4 keV 100 pC 4.0 GeV

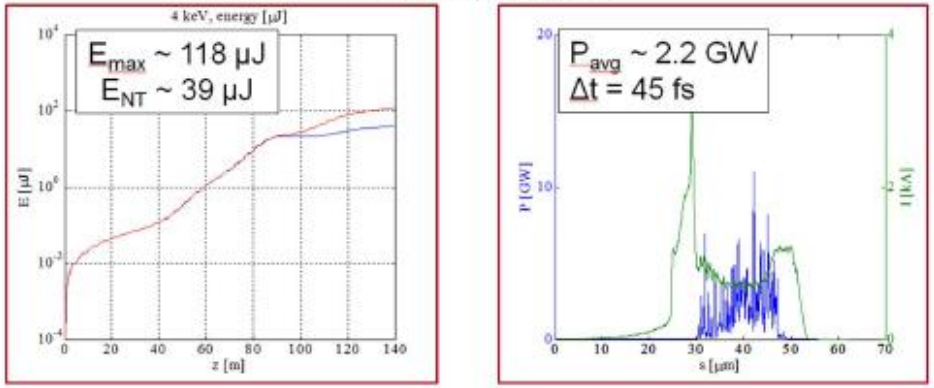


Figure 3-20. **Genesis simulation of IMPACT beam in HXR at 4 keV with photon pulse energy**