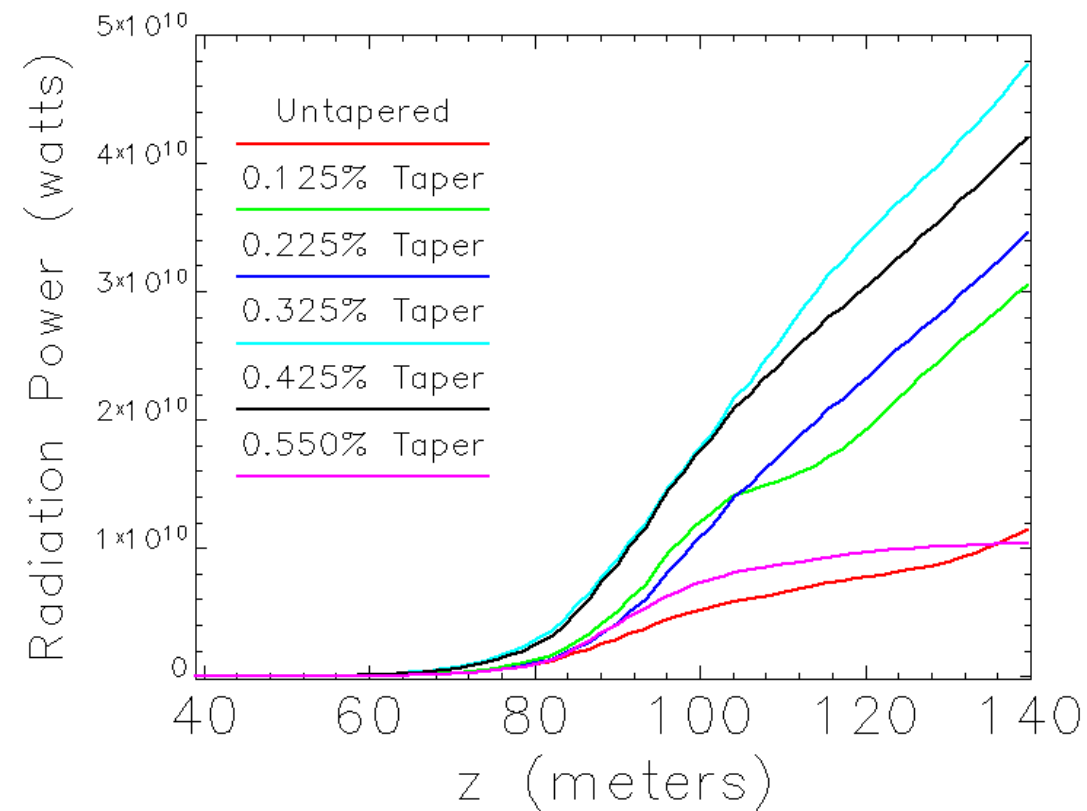


# Effects of Linear K Taper on LCLS SASE Output Power at $\lambda=0.15\text{nm}$

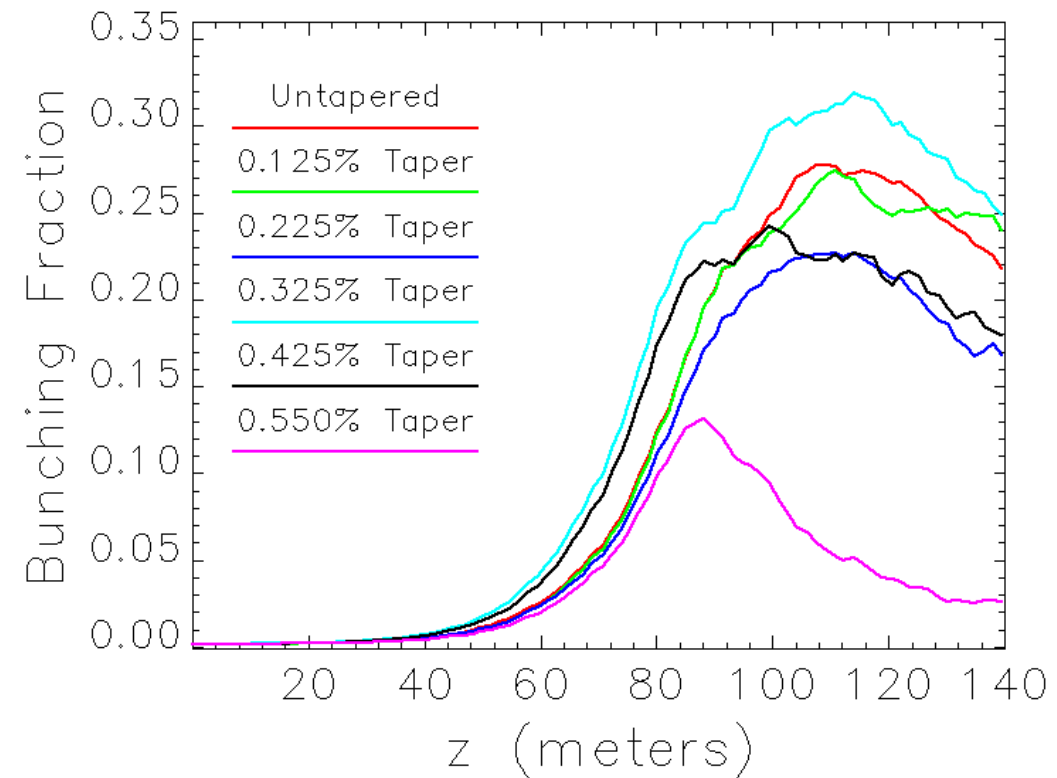
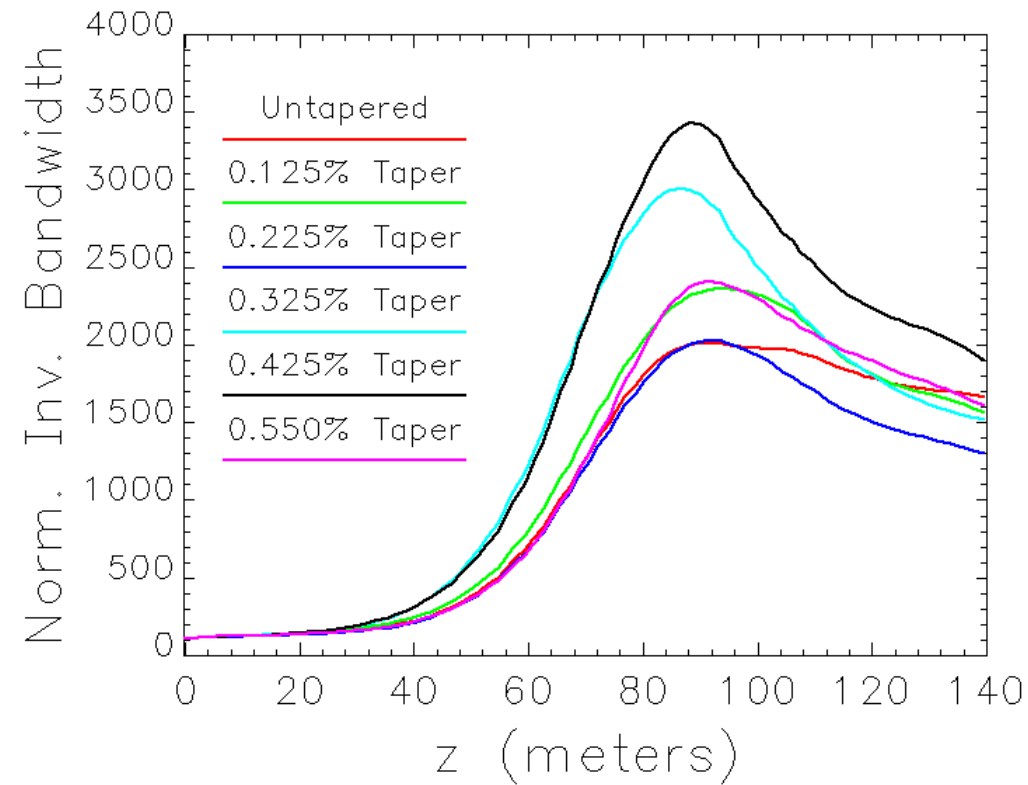


- GINGER SASE runs
- New drift space configuration, quadrupole focusing
- Taper begins at  $z=75$  m, simple linear decrease with  $z$
- Max power obtained around 0.3 to 0.4%; excessively large taper leads to rapid debunching with  $z$



# Bunching and Inverse Bandwidth vs Z

## 0.15-nm LCLS



GINGER SASE runs; new LCLS drift space configuration