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 $z=75\text{ m}$, 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