LCLS X-Ray Waist Estimate at Q = 250 pC

- Plot showing X-ray beam waist size (rms) as a function of photon energy (E_{\text{photon}}) for different values of Ip (Ipk) = 0.5 kA, 1.5 kA, 2.5 kA, and 3.5 kA.

- The graphs indicate a minimal variation in waist size with changes in Ip and photon energy.