300 kV

400 A gun solenoid

Xoff=0

Yoff=0

5000 particles

50 ps (gauss rms)

0.56 mm mrad /mm emittance

1 nC

Space charge grid: Nrad=13, Nlong\_in=28

|  |  |  |
| --- | --- | --- |
| Laser size rms (mm) | # of Active particles  | # of lost particles  |
| 0.3 | 2732 | 2268 |
| 0.5 | 3885 | 1115 |
| 0.7 | 4600 | 400 |
| 0.9 | 4955 | 45 |
| 1.0 | 4999 | 1 |

1.2 mm rms

50000 particles in distribution

-1000.00 pC total charge

Position 1.47

3.14714e-01 MeV, beta\*gamma 1.3, beta 0.7855

1.10755e+01 keV sig energy spread

43.98180 ps, sig time at cathode

sigx = 28.0522 mm, sigy = 28.0574 mm

sigxp = 26.6566 mrad, sigyp = 26.6602 mrad

sigz = 24.5163 mmnEnz = 27.8111 keV mm = 118.0185 keV ps

Enxps = 616.8873 um, Enyps = 617.2966 um

Enxtr = 615.4736 um, Enytr = 615.8302 um

Exge = 486.0151 um, Eyge = 486.3376 um

















