ECLOUD-Dipole_1mA: Electron Cloud Charge Buildup

Electron Density (m$^{-3}$)

Time (ns)

$10^8$
ECLOUD-Dipole_1mA: Time-Integrated Energies of Electrons Hitting Wall

Entries: 501
Mean: 5.781
RMS: 7.020

Normalized Nr of Electrons per 1.6 eV

Energy Cut (eV)

Percentage above energy cut (%)

Energy Cut (eV)
ECLOUD-Dipole_1mA: Cloud Density (e/m$^3$) Averaged Over 125.71 ns

Projection on X (cm)

Projection on Y (cm)
ECLOUD-Dipole_1mA: Cloud Density (e/m³) Averaged Over 125.71 ns
ECLOUD-Dipole_1mA: Electron Energies (eV) Averaged Over 125.71 ns
ECLOUD-Dipole_1mA: Electron Energies (eV) Averaged Over 125.71 ns
ECLOUD Dipole_1mA: Electron Cloud Charges Lost at Wall

Entries: 95791
Mean: 7.128
RMS: 8.036

Total wall current density: 332 nA/cm$^2$ over 125.71 ns
ECLOUD Dipole_1mA: Electron Cloud Charges Lost at Wall

- Nr Macroparticles Lost
  - Entries: 95826
  - Mean: 47.60
  - RMS: 32.13

- Nr Charges Lost (e)
  - Entries: 95791
  - Mean: 26.77
  - RMS: 21.41

- Nr Secondaries Created (e)
  - Entries: 95790
  - Mean: 27.14
  - RMS: 21.63

Time (ns)
ECLoud Dipole_1mA: Electron Cloud Charges Lost at Wall

Secondary Charge/Lost Charge

Macroparticle Energy (eV)

Entries           95791

Macroparticle Energy (eV)

Lost Charge (e)
ECLOUD Dipole_1mA: Electron Cloud Charges Lost at Wall

Secondary Charge/Lost Charge vs. Macroparticle Energy (eV)

- Entries: 95791