Particle Emission Sources: PIC Solver
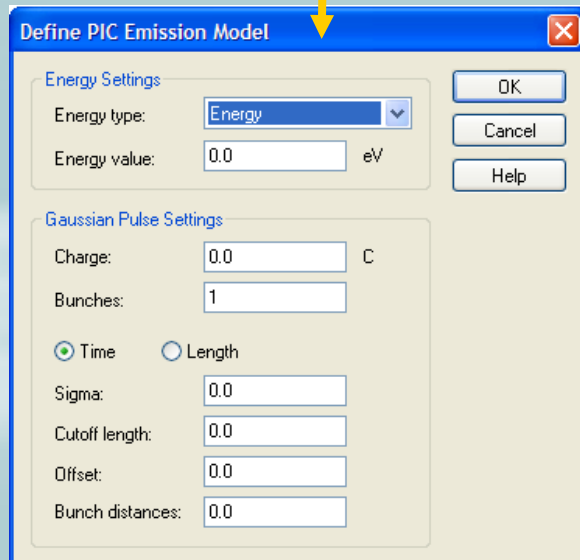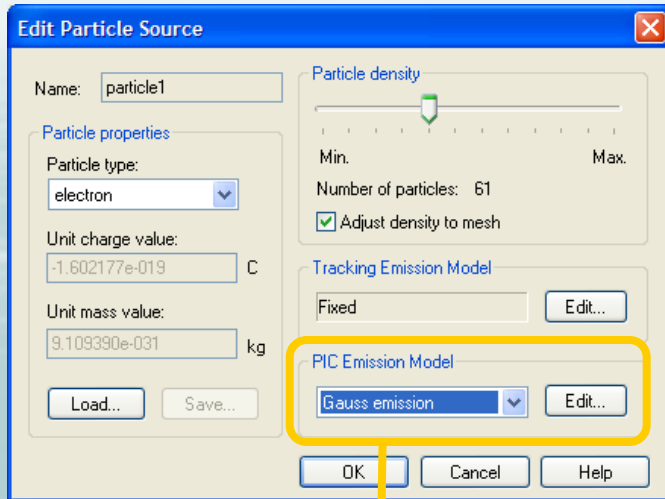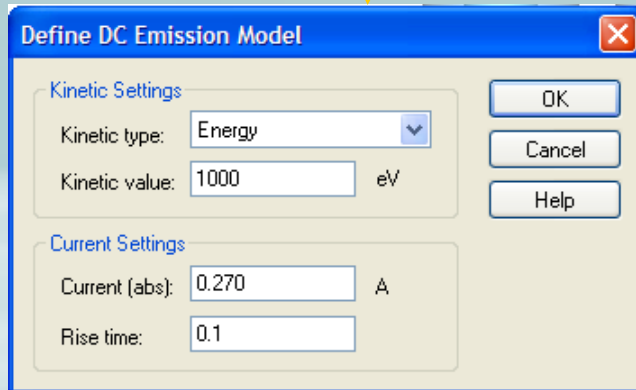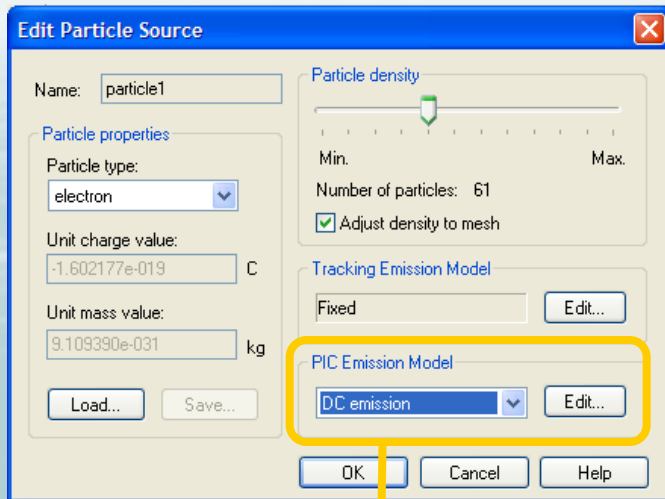
PIC: Gaussian Emission
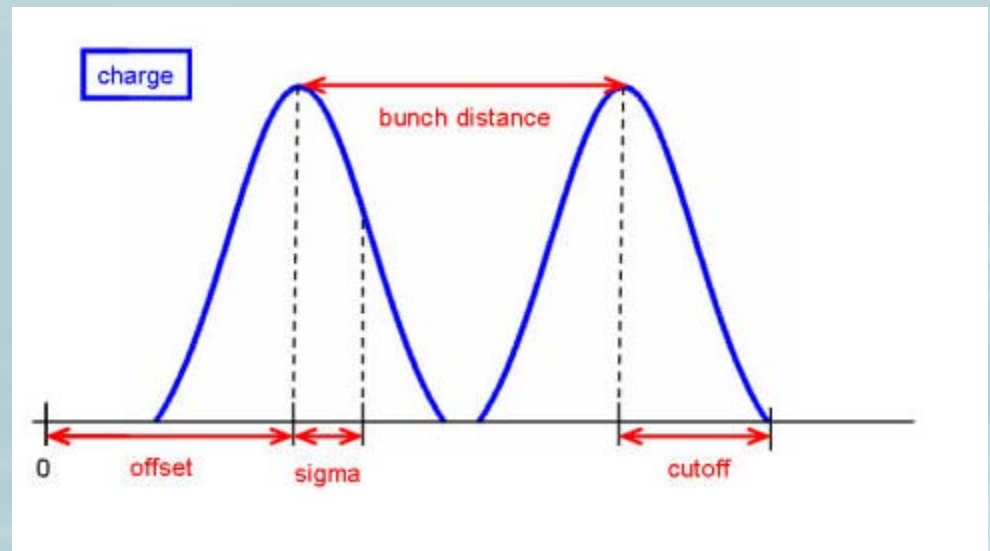
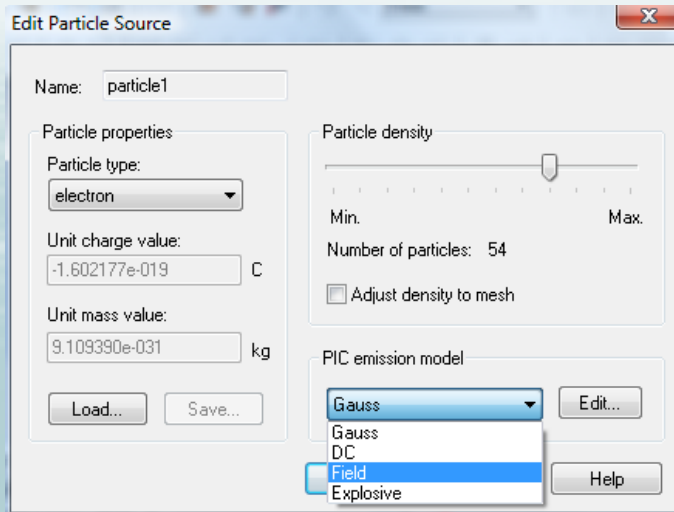# PIC: DC Emission

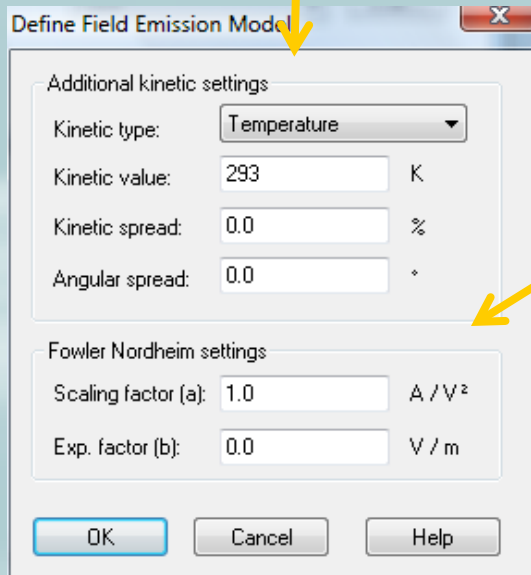DC current from the surface

PIC: Field Emission

Field emission uses the Fowler Nordheim equation.

$$J_{\text{fn}} = aE^2 \exp\left(-b/E\right)$$

The bunch kinetic value corresponds to the temperature of the cathode.

Particle Emission Sources: TRK Solver