



Photomultiplier

Secondary emissions can be generated when a particle hits an electrode. The current multiplication factor and energy and angular distributions of the secondaries are chosen by the user.



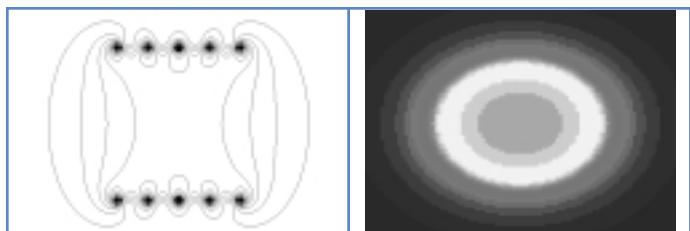
Scattering by a Background Gas

Particle scattering and losses due to grid, background gas or secondary emissions are given in examples included in the scattering version of CPO. Particle-particle scattering inside the beam is possible with the stochastic version. User-defined routines can be written in C++.



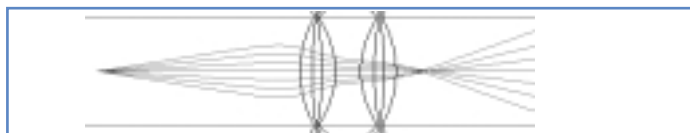
Quadrupole and Hemispherical Analyzer

Many examples of electrostatic lens systems, including energy and mass analyzers, are simulated. Electrode voltages may be oscillated at low frequencies, as in the quadrupole.



Magnetic Contours of Solenoid Coil

Magnetic elements of various types such as solenoids, wire loops and user-defined fields are available. Various contour and field plots can be displayed.



Einzel Lens

Abberation coefficients and lens properties may be calculated directly. An iterative automatic focusing option can be used to find the optimum electrode voltages.

Standard Packages (special versions also available)

| Part No. | Description | Price |
|----------|---|-------|
| CPO3 | CPO-3D (3D, non-space-charge) | |
| CPO3S | CPO-3DS (3D, space-charge) | |
| CPO3A | CPO-3D (3D, non-space-charge) (academic pricing) | |
| CPO3SA | CPO-3DS (3D, space-charge) (academic pricing) | |

For more Information go to our web site:
<http://www.simion.com/cpo>