

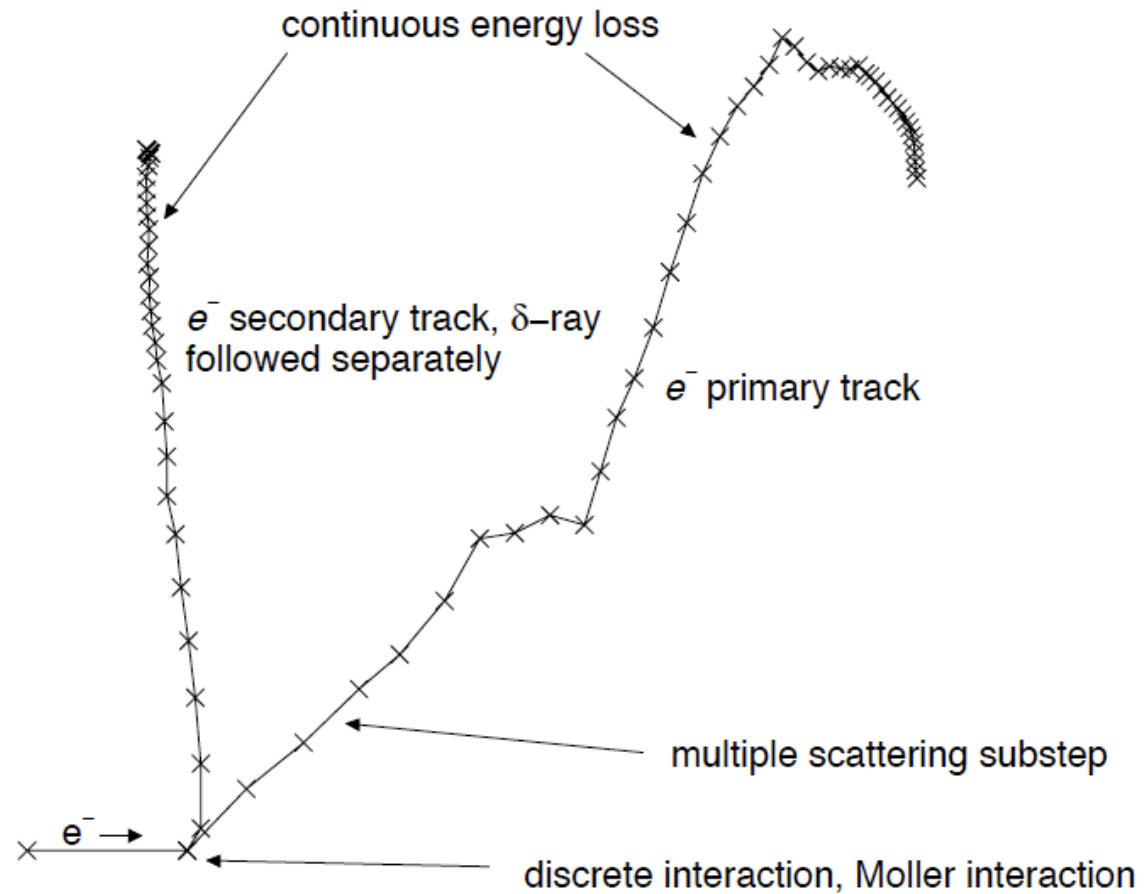
Electron transport simulation

The charge of electron is the responsible for a huge number of interactions per unit path length.

To improve the efficiency of simulations, the history of the electron is condensed. The interactions with energy transfers below a certain value are consider as soft collisions. These collisions are grouped together within a single transport step. The other interactions are explicitly accounted for (also known as catastrophic or hard interactions)

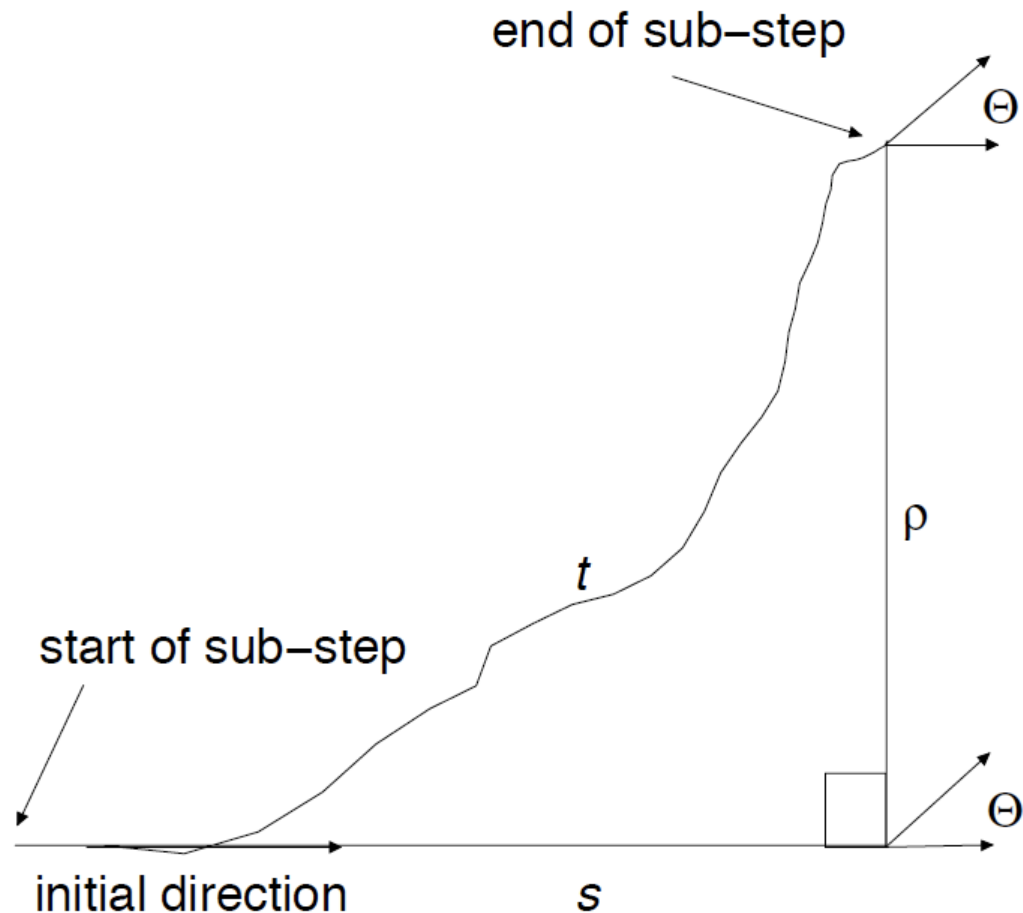
Electron transport simulation

Example
 $\Delta E/E=0.04$

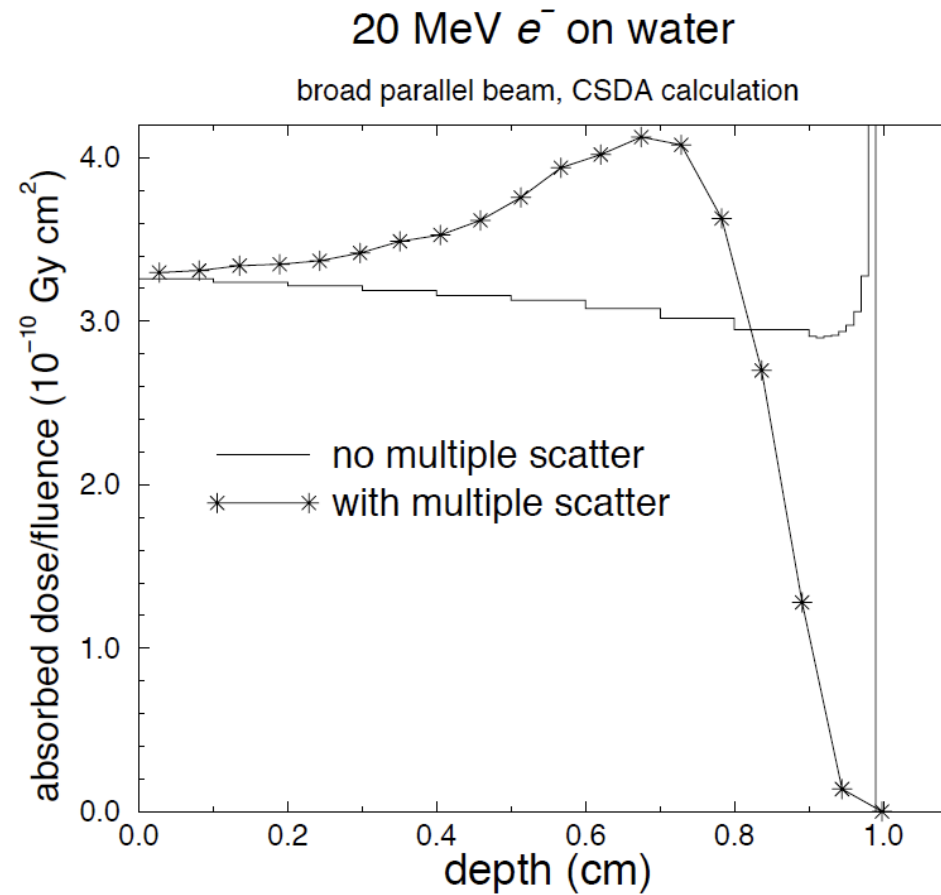


Electron transport simulation

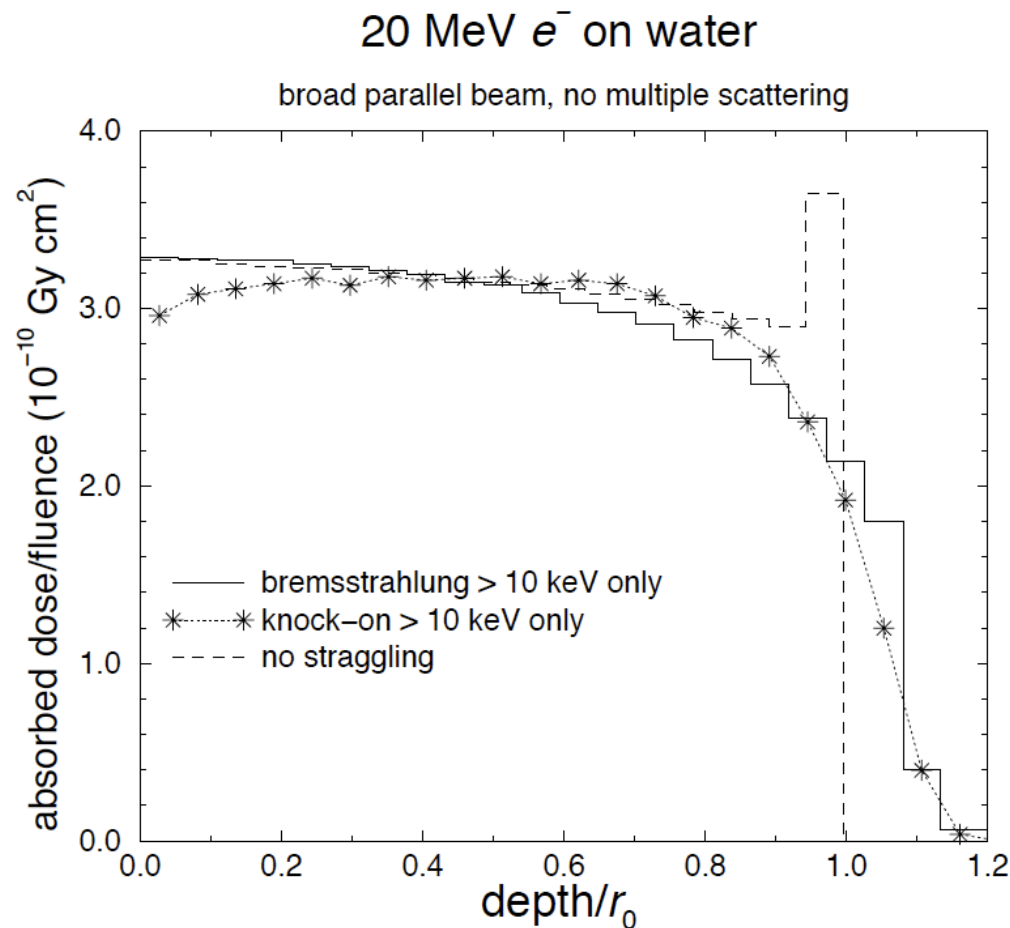
Example
A multiple scattering distribution $G(t, \Theta)$ is needed in this approach.



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