

Charged Particle Interactions - Detection

Interaction of heavy charged particles

• **Electronic** or nuclear (Rutherford, nuclear reactions, ...).

Detectors mainly designed to make use of electronic interactions.

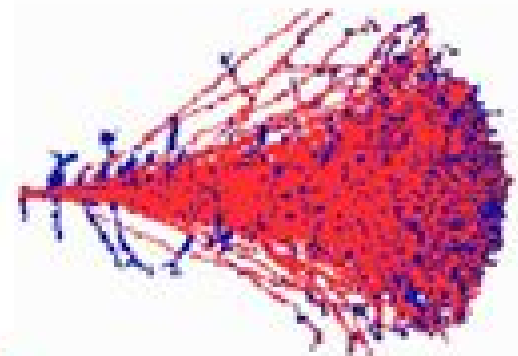
Excitation Ionization → ion-pair, suppress recombination in **detectors**.

Energy loss

SRIM

<http://www.srim.org>

- **Depletion layer.**
- **Delta rays and secondary electrons.**
- **Electron suppression for charge integration.**
- **Faraday Cup.**
- **Tracks.**



Secondary Electron Spectra From Charged Particle Interactions Icru Report

Michael Hoelscher



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