

## Radioisotope Implanter

Building 26 (PEMS South), room G50-North, contact Heiko Timmers

Located adjacent to the radiochemistry laboratory, the radioisotope implanter is used for the low energy (50 - 150 kV) ion implantation of radioisotopes as *negative* ions.

It is employed to explore the process of ion implantation, as well as to implant dilute concentrations of radioactive probes in host materials for the purpose of in-house radiative detection techniques such as:

- low temperature nuclear orientation (LTNO)
- nuclear magnetic resonance on oriented nuclei (NMRON)
- perturbed angular correlation (PAC)
- source geometry Mössbauer spectroscopy

