

3D reconstruction of inner structure of radioactive sample utilizing gamma tomography



- Unique 3D tomography apparatus was built and successfully tested in Research Centre Rez.
- The apparatus allows three-dimensional view into the interior of low-dimension radioactive samples with a diameter up to several tens of millimeters with a resolution in order of cubic millimeters and is designed to detect domains with different levels of radioactivity.
- Structural inhomogeneities such as cavities, cracks or regions with different chemical composition can be detected using this equipment.
- The advantage of computed tomography is the possibility of 3D imaging. The source of radiation is the scanned sample itself in the case of SPECT. After passing through the sample, the radiation is detected by a suitable detector.

