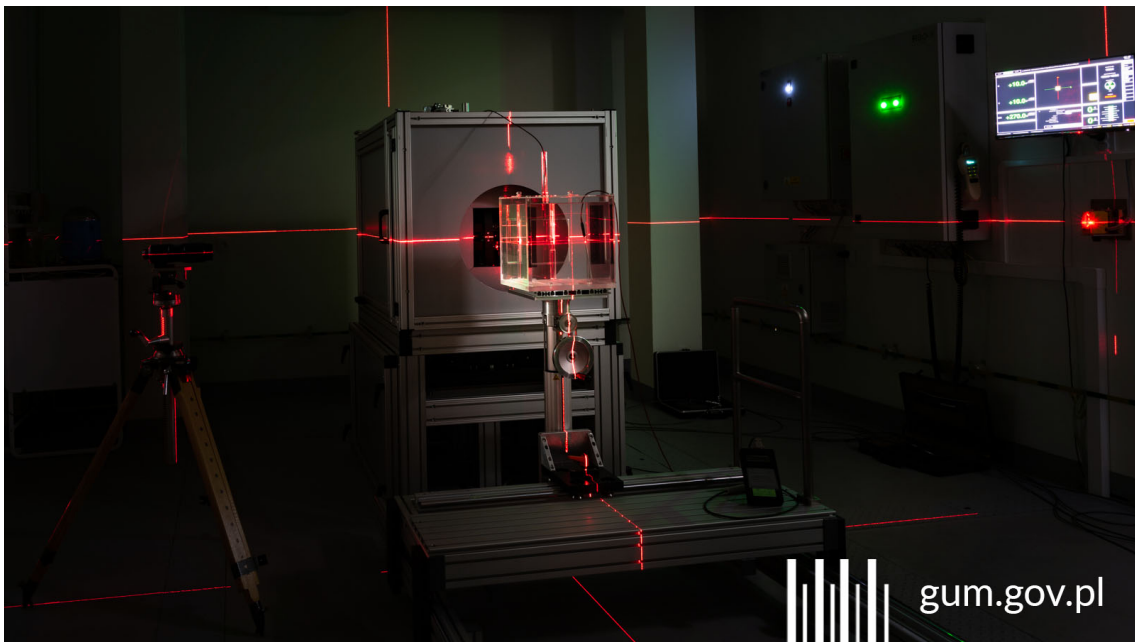


## Ionizing Radiation

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### Electricity and Radiation Department



#### Tasks:

- Maintenance and development of the primary standards for air kerma of x-ray and gamma radiation;
- Ensuring traceability of dissemination of air kerma;
- Maintenance and development of the reference standard for absorbed dose to water of gamma radiation;
- Ensuring traceability of dissemination of absorbed dose to water;
- Ensuring, through comparisons, traceability of standards.

#### Services:

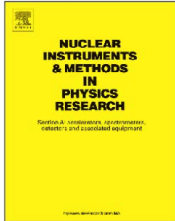
- Calibration of therapy and radiation protection dosimeters.
- Irradiation of samples with reference doses for x-ray and gamma radiation.

## Contact to the Laboratory:

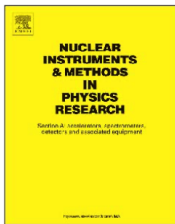
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## Publications



A. B. Knyziak, W. Rzdokiewicz: [Measurement methods of ionization current and electric charges in radiation dosimetry](#), [Nuclear Instruments and Methods in Physics Research](#) Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 822, Pages 1-8, 2016.



A. B. Knyziak, W. Rzdokiewicz: [New X-ray testing methods of aerosol products for industrial radiography](#), [Nuclear Instruments and Methods in Physics Research](#) Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 822, Pages 1-8, 2016



M. M. Szymko, L. Michalik, A. B. Knyziak, A. W. Wójtowicz: [Development and characterization of air kerma cavity standard](#), [Measurement](#), Volume 136, March 2019, Pages 647-657.