

Employees of Department No. 5 of the Institute, Doctor of Physics and Mathematics Yuri Bacherikov, Candidate of Chemical Sciences Oleksandra Berezhnytska, Candidate of Chemical Sciences Nadiya Ivakha, Candidate of Chemical Sciences Oleksandr Rogovtsov, within the framework of the joint project Marie Skłodowska-Curie Action: Research and Innovation Staff Exchange (HORIZON-MSCA-2022-SE-01) Grant Agreement 101129879 DETMED “Novel Detector Concept for Medical Gamma



Probe” from 07/22/2025 to 08/20/2025, were on a secondment to the company “Nanomaterials Research and Development (NRD)” in Krakow, Poland.



A number of joint discussions were held focused on the analysis and interpretation of the results of the synthesis and characterization of scintillation materials based on yttrium-aluminum garnet (YAG) doped with lanthanide ions and coordination compounds. During

the visit, a number of new systems based on yttrium-aluminum garnet doped with lanthanide ions were synthesized. A plan for further joint research and publications was developed.