
Activity report, attendance to the 12th Lumdetr Conference

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International Conference on Luminescent Detectors and Transformers of Ionizing Radiation (Lumdetr 2024), held in Ryga

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Recently, I attended the 12th International Conference on Luminescent Detectors and Transformers of Ionizing Radiation (Lumdetr 2024), held in Riga, Latvia, from June 16-21, 2024. The Pianoforte Travel Grant has made it possible for me to attend and participate in this event. By providing financial assistance, Pianoforte Travel Grant not only enabled my participation in this event but also invested in the advancement of scientific knowledge and the promotion of excellence in research. This report outlines the significance of my participation from a scientific perspective.

Firstly, attending Lumdetr 2024 provided me with the opportunity to gain insights into the latest advances in basic and applied research in the field of luminescence, ionizing radiation, the processes of energy transfer and storage in solid state systems, the physics and chemistry of luminescent phosphor and scintillation materials, and related applications.

Secondly, the conference offered a variety of presentations on topics such as advanced luminescent materials in different application. I attended sessions directly related to my research interests, including, scintillation materials - LuAG, YAG and GAGG doped with Ce³⁺ in thermoluminescence dosimetry, development of multilayer composite scintillators and detectors, lyoluminescence revolutionizing luminescence dating of evaporates, thermoluminescence and optically stimulated luminescence properties of different detectors after ultra-high dose rate irradiation, or testing different luminescence measurement protocols for an accident dosimeter. These sessions provided me valuable knowledge.

Thirdly, I presented my poster entitled "Luminescent properties of composite detectors based on MgAl₂O₄ doped with rare earth and transition metal ions". This gave me the opportunity to share my research and receive constructive feedback.

Attending the Lumdetr 2024 conference was a very rewarding experience. Scientifically, it broadened my knowledge and provided new insights into cutting-edge research.