

Photonics, Optoelectronics and Terahertz Radiation (Scientific Session of the Physical Sciences Division of the Russian Academy of Sciences, (PSD RAS) April 2, 2025)

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On April 2, 2025, at 14:00, a Scientific Session of the Physical Sciences Division of the Russian Academy of Sciences (PSD RAS) titled “Photonics, Optoelectronics and Terahertz Radiation” was held in the conference hall of the P.N. Lebedev Physical Institute of the RAS (Moscow, Leninskii prospekt, 53). The agenda announced on the PSD RAS website www.gpad.ac.ru included the following reports:

1. **Khokhlov D.R.** (Faculty of Physics, M.V. Lomonosov Moscow State University, Moscow). “Chiral Nonlocal Terahertz Photoconductivity in Cadmium–Mercury–Telluride Topological Insulators;”

2. **Zaitsev K.I.** (A.M. Prokhorov General Physics Institute of the RAS, Moscow). “Terahertz Photonics: Original Developments, Fundamental and Applied Research;”

3. **Zadkov V.N.** (Institute for Spectroscopy of the RAS, Troitsk, Moscow). “From Science to Cutting-Edge Technologies in the Field of Photonics;”

4. **Muravyov V.M.** (Institute of Solid State Physics of the RAS, Chernogolovka, Moscow Region). “Plasmonics for Terahertz Electronics Systems;”

5. **Starikov F.A.** (Russian Federal Nuclear Center–All-Russian Research Institute of Experimental Physics (RFNC–VNIIEF), Sarov, Nizhny Novgorod Region). “Linear and Nonlinear Adaptive Optics for Laser Beam Correction.”

The review based on report 5 is published further in this issue of *Physics Uspekhi* (*Uspekhi Fizicheskikh Nauk*) (see [1]).

1. Garanin S G, Starikov F A “Nonlinear and linear adaptive optics for laser beam correction” *Phys. Usp.* **69** 282 (2026); “Nelineinaya i lineinaya adaptivnaya optika dlya korrektsii lazernykh puchkov” *Usp. Fiz. Nauk* **196** 302 (2026)



Explosive photodissociation iodine laser (EPIL) with an active region diameter of 1200 mm and output energy of 1 MJ (for more details, see [1]).

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Laser hall and small interaction chamber of the new-generation pulsed multichannel laser facility at RFNC–VNIIEF (see [1]).