

TERA
2018

3rd International Conference

Terahertz and Microwave Radiation: Generation, Detection and Applications

<http://tera2018.ipfran.ru>

October 22 – 25, 2018

**Institute of Applied Physics of the Russian Academy of Sciences
46 Ulyanov Street · 603950 · Nizhny Novgorod · Russia**

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TERA-2018 conference is devoted to the discussion of fundamental and applied problems related to the generation and detection of terahertz and microwave radiation as well as its interaction with matter.



Conference Chairman

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Institute of Applied Physics RAS

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Budker Institute of Nuclear Physics RAS

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Sections

- Electronic sources of THz & MW radiation, synchrotron radiation, free-electron lasers.
- Optoelectronic & solid-state sources of THz radiation.
- Generation of THz radiation by intense laser pulses.
- Quantum cascade lasers.
- Detection of THz & MW radiation. Metrology in THz frequency range.
- Study of materials (including nano- and metamaterials) with the help of THz & MW radiation. Time-domain and CW spectroscopy.
- Interaction of high-power THz and MW radiation with matter. Application of THz radiation for the research and control of ultrafast process in physics, chemistry and biology.
- Terahertz & microwave imaging: tomography, holography and near-field microscopy.
- Systems of security and non-destructive control using THz and MW radiation. Remote sensing with THz radiation. Communication in THz frequency range.
- Medical and biological applications of THz radiation.



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