



Tbilisi
GEORGIA

The 14th International Conference on Intrinsic Josephson Effect and Emerging Superconducting Applications 19–22 October 2027

Scope

This series of conferences focuses on the complex physical phenomena that occur in strongly anisotropic layered superconductors exhibiting the intrinsic Josephson effect. The aim is to exploit this effect both for fundamental investigations of the mechanisms underlying unconventional and high-temperature superconductivity and for the development of advanced applications in next-generation THz systems and high-frequency superconducting electronics.

The conference will also address recent trends, technical challenges and future perspectives in emerging applications of superconductors.

Main Topics

- Natural and artificial superconducting heterostructures.
- Superconducting THz sources and detectors.
- Unconventional and high-temperature superconductivity.
- Novel superconducting electronics.
- Abrikosov and Josephson vortices in electronic applications.
- Josephson junctions and arrays.
- Advanced imaging and testing of superconducting devices.
- Emerging applications of superconductors.

Important Dates

Abstract submission:

from **19.10.2026** to **19.08.2027**

Early bird registration: until **01.09.2027**

Paper submission deadline: **01.12.2027**

Conference proceedings

Proceedings will be published in a special issue of Beilstein Journal of Nanotechnology.

Organizing Committee

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Conference venue

Georgian Technical University, Tbilisi.

WWW: <https://IJJ14conf.fysik.su.se>

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