

Tbilisi
GEORGIA



The 14th International Conference on Intrinsic Josephson Effect and Emerging Superconducting Applications 18–22 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 **16.11.2026** to **20.08.2027**
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.

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IJJ-1'1997 Sendai, Japan. **IJJ-2**'2000 Sendai, Japan. **IJJ-3**'2002 Pommersfelden, Germany. **IJJ-4**'2004 Tsukuba, Japan. **IJJ-5**'2006 London, UK. **IJJ-6**'2008 Pohang, S. Korea. **IJJ-7**'2010 Hirosaki, Japan. **IJJ-8**'2012 Izmir, Turkey. **IJJ-9**'2014 Kyoto, Japan. **IJJ-10**'2016 Nanjing, PRC. **IJJ-11**'2019 Orlando, USA. **IJJ-12**'2021 Chisinau, Moldova. **IJJ-13**'2024 Glasgow, UK.