Preface

We are pleased to share the Annual Activity Report of the Institute for Solid State Physics (ISSP) for the 2024 academic year. ISSP, established in 1957 and affiliated with the University of Tokyo, functions as a joint usage/research center. Since its founding, ISSP has consistently contributed to the advancement of condensed matter physics and materials science through fundamental scientific and technological research.



This report highlights a broad range of research achievements by ISSP members, as well as by external researchers who participated in our joint research programs.

- The first section presents 30 research highlights from ISSP internal research groups.
- The second section features 13 highlights from joint research conducted by external researchers, supported by ISSP members through the joint-use program.
- The third section outlines developments of the following facilities: Supercomputer Center, Neutron Science Laboratory, International MegaGauss Science Laboratory, Center of Computational Materials Science, Laser and Synchrotron Research Center, and Synchrotron Radiation Laboratory.
- The fourth section provides overviews of the 15 conferences and workshops hosted by ISSP in 2024
- The report concludes with listings of joint-use research subjects and publications.

These activities reflect ISSP's continued role as a global center of excellence in condensed matter physics and materials science. We are sincerely grateful for the ongoing support and collaboration of the research community, which enables us to sustain and further develop our activities.

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