

SPring-8

I. Introduction

SPring-8 was stably operated throughout FY2024 achieving a total accelerator complex operation time of 5187.1 h, user beam time of 4416.9 h, and a total downtime of 21.6 h. SPring-8 completed all its operations by mid-February 2025.

Concerning the contract beamlines, there were interim review and extend review conducted for Laser-Electron Photon II (BL31LEP, Research Center for Nuclear Physics, Osaka University), and Macromolecular Assemblies (BL44XU, Institute for Protein Research, Osaka University), respectively. As a result, the projects were authorized to continue. Toyota (BL33XU, Toyota Central R&D Labs., Inc.) also received a review, and their proposal for the next term was approved. Post-evaluations of Hyogo BM (BL08B2, Hyogo Prefecture), Hyogo ID (BL24XU, Hyogo Prefecture), and Advanced Softmaterial (BL03XU, Advanced Softmaterial Beamline Consortium) were also conducted. In addition, concerning Advanced Softmaterial (BL03XU, Advanced Softmaterial Beamline Consortium), its name will change to Analytical Science III (BL03XU, RIKEN BL) due to the expiration of their contract terms on 1st of April.

The Specific Synchrotron Radiation Facility Users Community (SpRUC) was established on March 1, 2025, through the merger of the SPring-8 Users Community (SPRUC) and the NanoTerasu Users Community (NTUC). At present, the number of SPring-8 users is about 13,000, all of whom are members of the SpRUC.

To facilitate dialogue between users and facility staff, it is important for SPring-8 to organize scientific events in collaboration with SPRUC, such as the SPring-8 Symposium. In 2024, the SPring-8 Symposium was held both online and on-site on September 5–6, with 365 participants. SPring-8 also facilitates communication between users and industry. The Joint Conference on Industrial Applications of SPring-8 was held in Hyogo Prefecture on September 10–11, with 216 participants. Moreover, as part of its continuous effort towards fostering human resources in synchrotron sciences, SPring-8 organized the 24th SPring-8 Summer School with 84 graduate students nationwide. Furthermore, SPring-8 and SPRUC organized the 8th SPring-8 Autumn School with 67 participants, which included university students and corporate researchers.

