

SPring-8

I. Introduction

SPring-8 was stably operated throughout FY2022 achieving a total accelerator complex operation time and user beam time of 5259.3 h and 4416.0 h, respectively, and a downtime of 19.7 h. SPring-8 completed all its operations by the middle of February 2023.

For the contract beamlines, interim reviews were conducted at QST Quantum DynamicsI (BL11XU, National Institutes for Quantum Science and Technology), QST Quantum DynamicsII (BL14B1, National Institutes for Quantum Science and Technology), JAEA Actinide ScienceI (BL22XU, Japan Atomic Energy Agency), JAEA Actinide ScienceII (BL23SU, Japan Atomic Energy Agency), Advanced Softmaterial (BL03XU, Advanced Softmaterial Beamline Consortium), NSRRC ID (BL12XU, National Synchrotron Radiation Research Center), and NSRRC BM (BL12B2, National Synchrotron Radiation Research Center). Subsequently, these beamline projects were authorized to continue.

Following the contract cancellation, a post-evaluation was conducted for the University-of-Tokyo Outstation Beamline for Materials Science (BL07LSU) in August 2022. At present, the number of SPring-8

users is as high as 14,000, all of whom are members of the SPring-8 Users Community (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 2022, the SPring-8 Symposium was held online on September 25–26, with 497 participants. SPring-8 also facilitates communication between users and industry. The Joint Conference on Industrial Applications of SPring-8 was held in Hyogo Prefecture from August 31 to September 1, 2022, with 214 participants. Moreover, as part of its continuous effort towards fostering human resources in synchrotron sciences, SPring-8 organized the 22nd SPring-8 Summer School with 77 students of graduate schools nationwide, in cooperation with the University of Hyogo, Kwansai Gakuin University, the University of Tokyo, Okayama University, Osaka University, Ibaraki University, Japan Atomic Energy Agency, National Institutes for Quantum and Radiological Science and Technology, and RIKEN. Furthermore, SPring-8 and SPRUC organized the 6th SPring-8 Autumn School with 60 participants, which included university students and corporate researchers.

