

Table of Contents

Preface

Director, RIKEN SPring-8 Center

SPring-8/SACLA

| | |
|--|----|
| 1. Accelerator..... | 1 |
| 2. Control System | 3 |
| 3. Operation Status..... | 5 |
| SPring-8 | |
| SACLA | |
| 4. Beamline | 9 |
| 5. End Station | |
| 5-1. Public Beamlines | |
| BL01B1 XAFS..... | 15 |
| BL02B1 Single Crystal Structure Analysis..... | 18 |
| BL02B2 Powder Diffraction | 20 |
| BL04B1 High Temperature and High Pressure Research..... | 23 |
| BL04B2 High Energy X-ray Diffraction | 26 |
| BL08W High Energy Inelastic Scattering..... | 29 |
| BL09XU Nuclear Resonant Scattering | 32 |
| BL10XU High Pressure Research..... | 36 |
| BL13XU Surface and Interface Structures..... | 38 |
| BL14B2 Engineering Science Research II..... | 41 |
| BL19B2 Engineering Science Research I | 44 |
| BL20XU Medical and Imaging II | 47 |
| BL20B2 Medical and Imaging I | 49 |
| BL25SU Soft X-ray Spectroscopy of Solid..... | 52 |
| BL27SU Soft X-ray Photochemistry..... | 56 |
| BL28B2 White Beam X-ray Diffraction..... | 59 |
| BL35XU High Resolution Inelastic Scattering..... | 62 |
| BL37XU Trace Element Analysis..... | 64 |
| BL38B1 Structural Biology III | 67 |
| BL39XU Magnetic Materials..... | 70 |
| BL40XU High Flux..... | 74 |
| BL40B2 Structural Biology II..... | 78 |
| BL41XU Structural Biology I..... | 81 |
| BL43IR Infrared Materials Science..... | 84 |

| | | |
|--------------------------------|--|------------|
| BL46XU | Engineering Science Research III | 86 |
| BL47XU | HAXPES / μ CT | 89 |
| 5-2. RIKEN Beamlines | | 93 |
| BL05XU | R&D-ID..... | 94 |
| BL17SU | RIKEN Coherent Soft X-ray Spectroscopy..... | 95 |
| BL19LXU | RIKEN SR Physics..... | 97 |
| BL26B1 & BL26B2 | | |
| | RIKEN Structural Genomics I & II..... | 99 |
| BL29XU | RIKEN Coherent X-ray Optics | 101 |
| BL32B2 | R&D-BM..... | 103 |
| BL32XU | RIKEN Targeted Proteins | 104 |
| BL43LXU | RIKEN Quantum NanoDynamics | 107 |
| BL44B2 | RIKEN Materials Science | 110 |
| BL45XU | RIKEN Structural Biology I..... | 111 |
| 5-3. Contract Beamlines | | |
| BL22XU | JAEA Actinide Science I..... | 112 |
| BL23SU | JAEA Actinide Science II | 116 |
| BL11XU | QST Quantum Dynamics I..... | 120 |
| BL14B1 | QST Quantum Dynamics II..... | 125 |
| BL08B2 | Hyogo BM..... | 129 |
| BL24XU | Hyogo ID | 132 |
| BL16XU | SUNBEAM ID | 136 |
| BL16B2 | SUNBEAM BM | 139 |
| BL44XU | Macromolecular Assemblies | 142 |
| BL33LEP | Laser-Electron Photon..... | 146 |
| BL31LEP | Laser-Electron Photon II | 150 |
| BL15XU | WEBRAM | 152 |
| BL12XU | NSRRC ID..... | 154 |
| BL12B2 | NSRRC BM..... | 158 |
| BL03XU | Advanced Softmaterial | 161 |
| BL07LSU | The University-of-Tokyo Outstation Beamline for Materials Science..... | 164 |
| BL33XU | TOYOTA | 167 |
| BL28XU | RISING II | 171 |
| BL36XU | Catalytic Reaction Dynamics for Fuel Cells | 175 |
| 5-4. SACL A Beamlines | | 178 |
| 6. Industrial Use | | 182 |
| 7. Proposal Committee | | 185 |

Appendix

| | |
|---|-----|
| • Safety Management | 189 |
| • Facility Management | 192 |
| • Information / Network | 197 |
| • Outreach Activities | 198 |
| • Budget Information | 199 |
| • International Cooperation | 200 |
| • Statistics on Research Subjects | 201 |
| • Statistics on Publications | 204 |
| • Organization Chart | 205 |