施設に関する報告
SPring-8

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28B2装置

• アブソーバ装置の改良
  - メンテナンス容易
  - 組み合わせ数増加
  - スペースの有効利用
28B2装置
2011B 実施課題数

- Topo (2, 11%)
- Diffraction (6, 33%)
- Medical (4, 22%)
- DXAFS (4, 22%)
- High pressures (1, 6%)
- etc (1, 6%)
28B2
2012A 実施課題数

- Topo (2, 11%)
- Diffraction (7, 39%)
- Medical (8, 44%)
- DXAFS (0, 0%)
- High pressures (1, 6%)
- etc (0, 0%)
28B2
登录論文数

2010 2011 2012
etc High pressures DXAFS Medical Diffraction Topo
We propose upgrading the SPring-8 light source in the year 2019 in order to advance promising science and to support industrial innovations that will improve our life and contribute to a more sustainable society. (preliminary report p. 5)

Key concepts of the upgrade

Ultimate-performance energy-effective facility

- Ultimate storage ring (coherence and brilliance)
  - Emittance $\to 10$ pm.rad.
  - Brilliance $\to x1000$

- Synergetic use with SACLA
  - Correlative imaging
  - X-ray pump-probe experiment

- Energy-efficient facility
  - Utilization of existing resources
  - Low energy consumption
Beamline

- HXBL-A (Hard X-ray BeamLine)
- HXBL-B
- SXBL (Soft X-ray BeamLine)
- MUBL (Mini Undulator BeamLine)
- DWBL (Damping Wiggler BeamLine)
- BM

Figure 6.1: Comparison of the brilliance curve available in the existing beamlines in SPring-8 and proposed ones in SPring-8 II. Peak values at respective harmonics are plotted in the undulator beamline, while a spectrum obtained at the maximum K value is plotted in the wiggler beamline. The stored current of 300 and 100 mA are respectively assumed for SPring-8 II and SPring-8.

Figure 6.2: Comparison of the flux available in the existing beamlines in SPring-8 and proposed ones in SPring-8 II. The stored current of 300 and 100 mA are respectively assumed for SPring-8 II and SPring-8.

Preliminary report p. 89 - 90
Figure A.1: Planned Schedule for SPring-8 II.

Table A.1: Milestones

<table>
<thead>
<tr>
<th>Date</th>
<th>Events</th>
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<tbody>
<tr>
<td>Oct. 10, 2008</td>
<td>Kick-off of the SPring-8 Working Group</td>
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<tr>
<td>Jun. 19, 2009</td>
<td>1st Symposium on SPring-8 Future Upgrade 2019</td>
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<td>Dec. 12, 2009</td>
<td>1st Workshop on SPring-8 II Accelerator Design</td>
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<tr>
<td>Dec. 4, 2010</td>
<td>2nd Symposium on SPring-8 Future Upgrade 2019</td>
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<tr>
<td>Apr. 25, 2011</td>
<td>2nd Workshop on SPring-8 II Accelerator Design</td>
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