

# 施設に関する報告

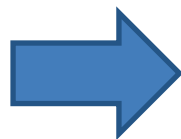
## SPring-8

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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

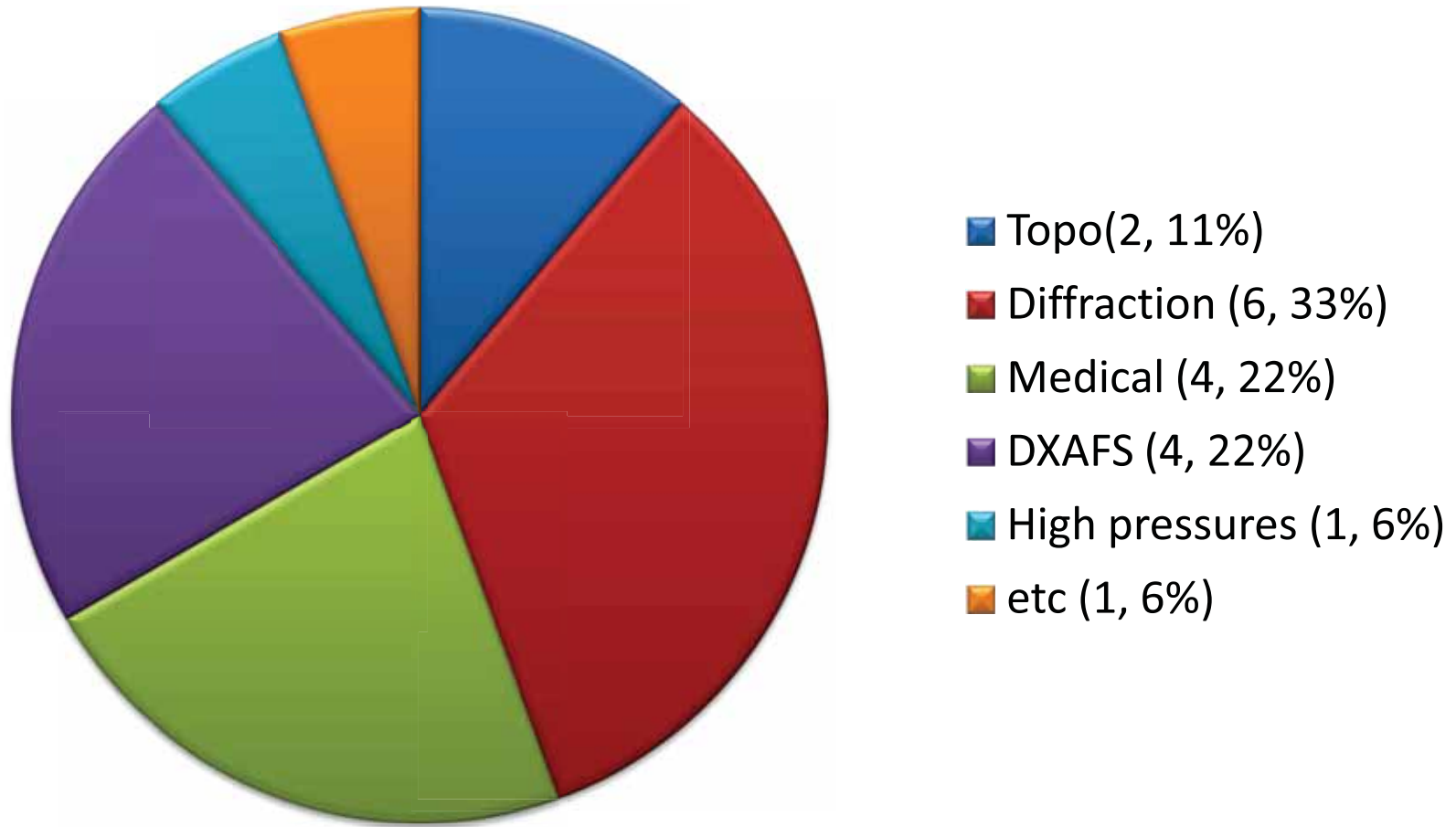


# 28B2装置



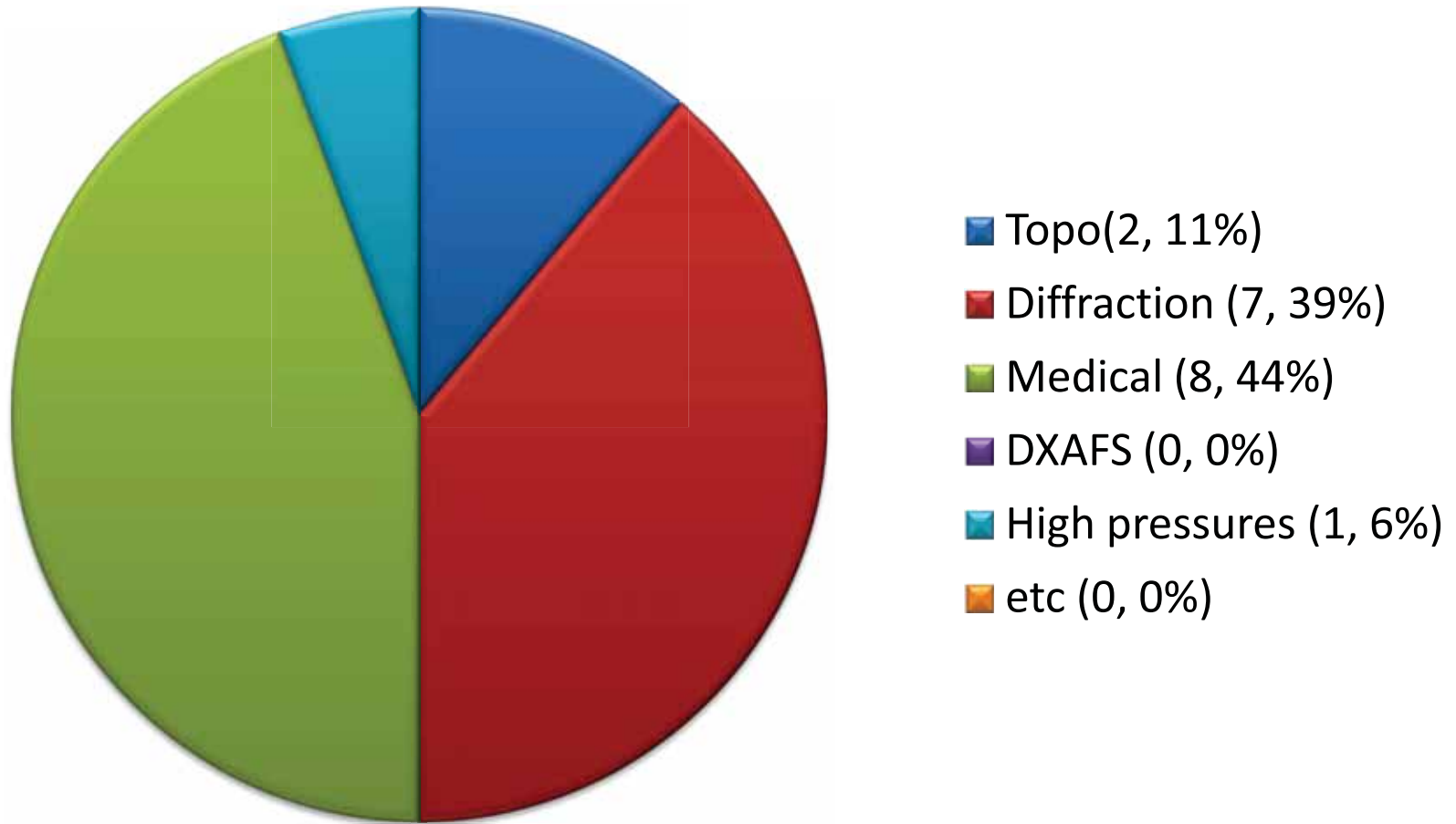
# 28B2

## 2011B 実施課題数



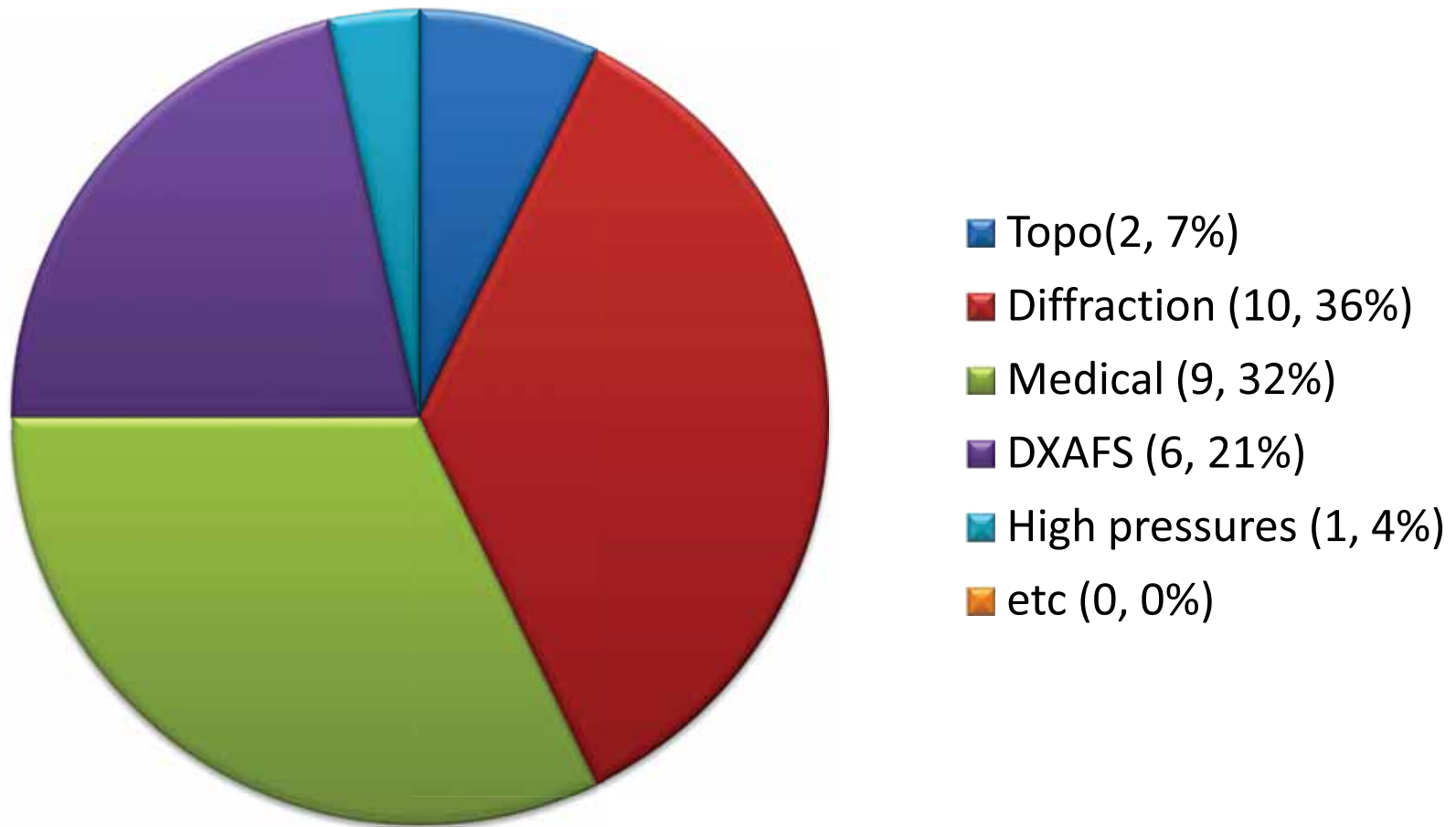
# 28B2

## 2012A 実施課題数



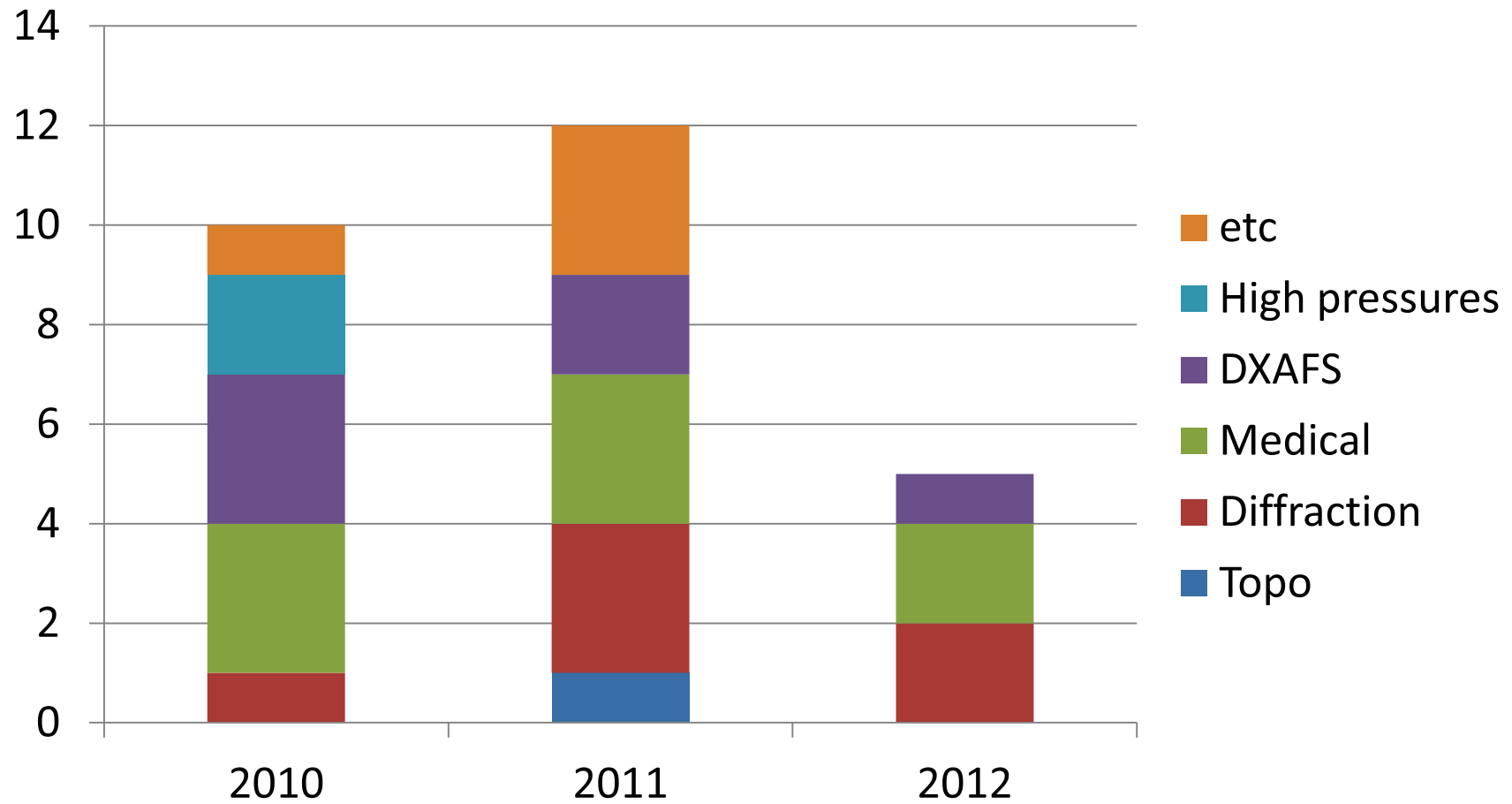
# 28B2

## 2012B 申請課題数



# 28B2

## 登録論文数



# SPring-8 upgrade

*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 → 10 pm.rad.
- Brilliance → x1000

- **Synergetic use with SACLA**

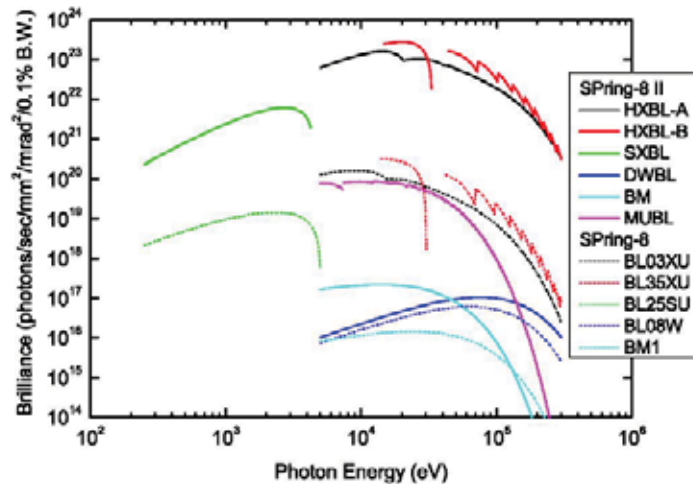
- Correlative imaging
- X-ray pump-probe experiment

- **Energy-efficient facility**

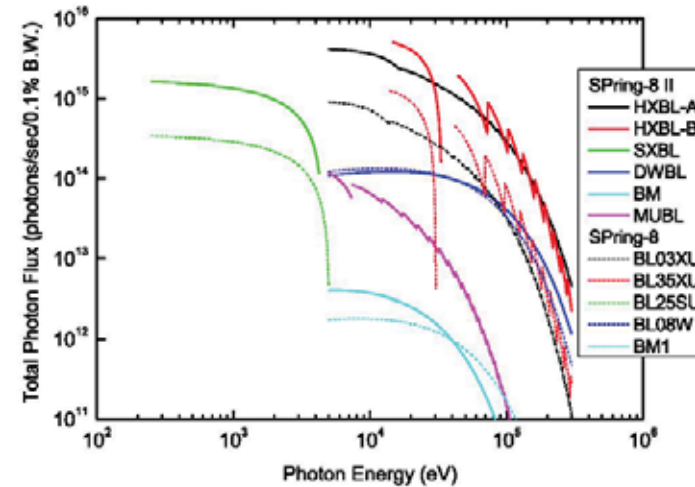
- Utilization of existing resources
- Low energy consumption



# Beamline



**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

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

# Road map

Road map for SPring-8 II



**Figure A.1:** Planned Schedule for SPring-8 II.

**Table A.1:** Milestones

Date	Events
Oct. 10, 2008	Kick-off of the SPring-8 Working Group
Dec. 18, 2008	Release of Internal Report on “Boundary Condition and Expected Light Source Performance of the Upgraded SPring-8”
Mar. 24, 2009	Release of Internal Report on Future Scientific Cases
Jun. 19, 2009	1st Symposium on SPring-8 Future Upgrade 2019
Dec. 12, 2009	1st Workshop on SPring-8 II Accelerator Design
Dec. 4, 2010	2nd Symposium on SPring-8 Future Upgrade 2019
Apr. 25, 2011	2nd Workshop on SPring-8 II Accelerator Design