	<h1>MLF Experimental Report</h1>	提出日 Date of report 2016/2/5
実験装置名/BL番号 Name of Instrument/BL10		
実験装置責任者 Name of the person responsible for the instrument:		
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1. 研究成果概要 (a)装置グループ内の成果、(b)ユーザー課題実装時における特筆すべきサポート、(c)ユーザー課題の執行状況について、まとめてください。A4 サイズ用紙使用のこと。

Outline of your activities. Following results at your instrument should be reported in A4 size papers: (a) results of your instrument group, (b) significant user support works, and (c) statistical summary of user experiments.

(a) Results of our instrument group

[Periodical measurement]

In FY 2014, 23 general use proposals were carried out at NOBORU, but some of them have not been completed due to the fire in the MLF on January 16, 2015. This year, we measured the neutron flux with high-power proton beam study up to 0.53 MW. Figure 1 summarizes ratio of the neutron flux vs. proton beam power measured at BL10. Each neutron flux was integrated from 1 meV to 100 meV. The result indicated that the neutron intensity was almost proportional to the proton beam power but depended on the proton beam profile, because the proton beam profile differed in both measurement years. This study will continue up to the 1 MW proton beam operation.

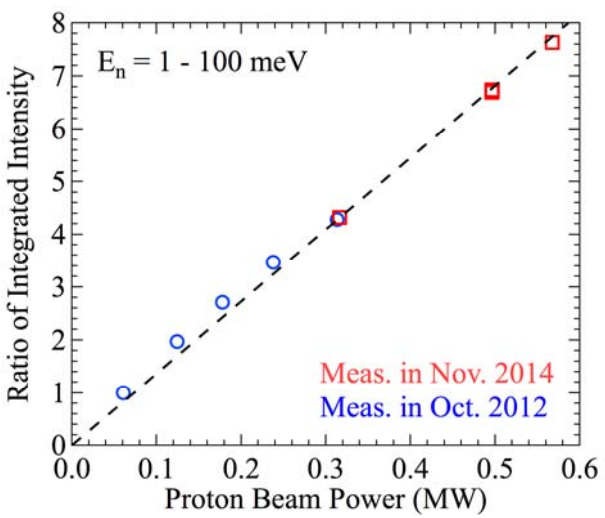


Figure 1. Ratio of intensity vs. proton beam power.

1. 研究成果概要(つづき) Outline of experimental results (continued).

(b) Significant user support works

We did not have any instrumental trouble at BL10 during JFY 2014. Imaging experiments by the user, from preparation to data analysis, were fully supported by instrument member of BL10 and imaging team of MLF.

(c) Statistical summary of user experiments

There was no intrinsic failure of the instrument components of BL10, and most of the approved proposals were carried out, except for the external problems of MLF/J-PARC.

In JFY 2014, 43.0 days were lost due to the accelerator troubles and the fire accident at the second experimental hall of the MLF/J-PARC.

After all, 55.0 and 54.0 days were assigned to the general use of 2014A and that of 2014B, respectively. 23.5 and 16.5 days were assigned to the project use of 2014P0600 and 2014P0800, respectively.

Some of them were not yet completed at this moment, because of a malfunction of the cooling system for the neutron target station on April 30th, 2015. The remaining user program will be carried out in JFY 2015.

必要に応じて、A4 サイズの用紙に続きを記入して下さい。

Please use A4-size papers for further reporting, if necessary.