

KURNS

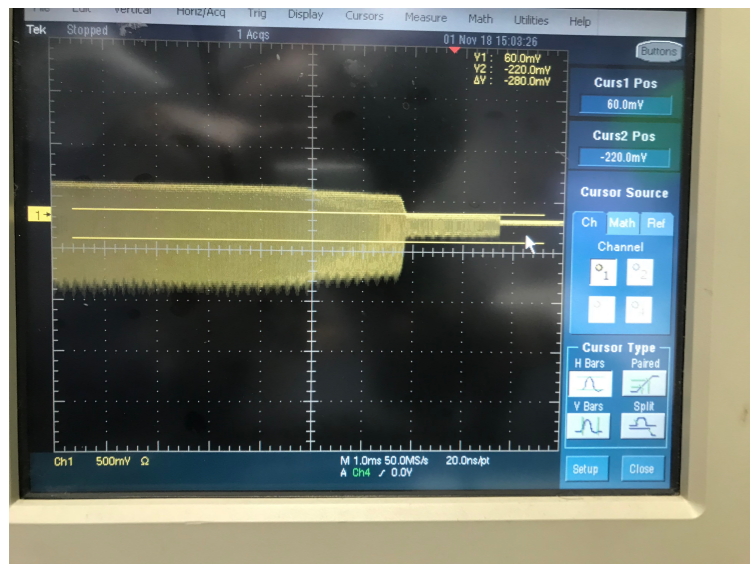
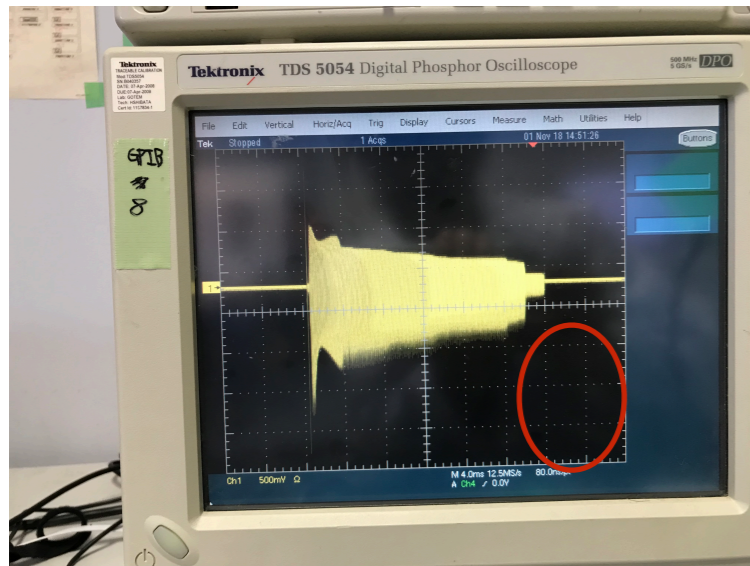
status and plans

2018.11.22

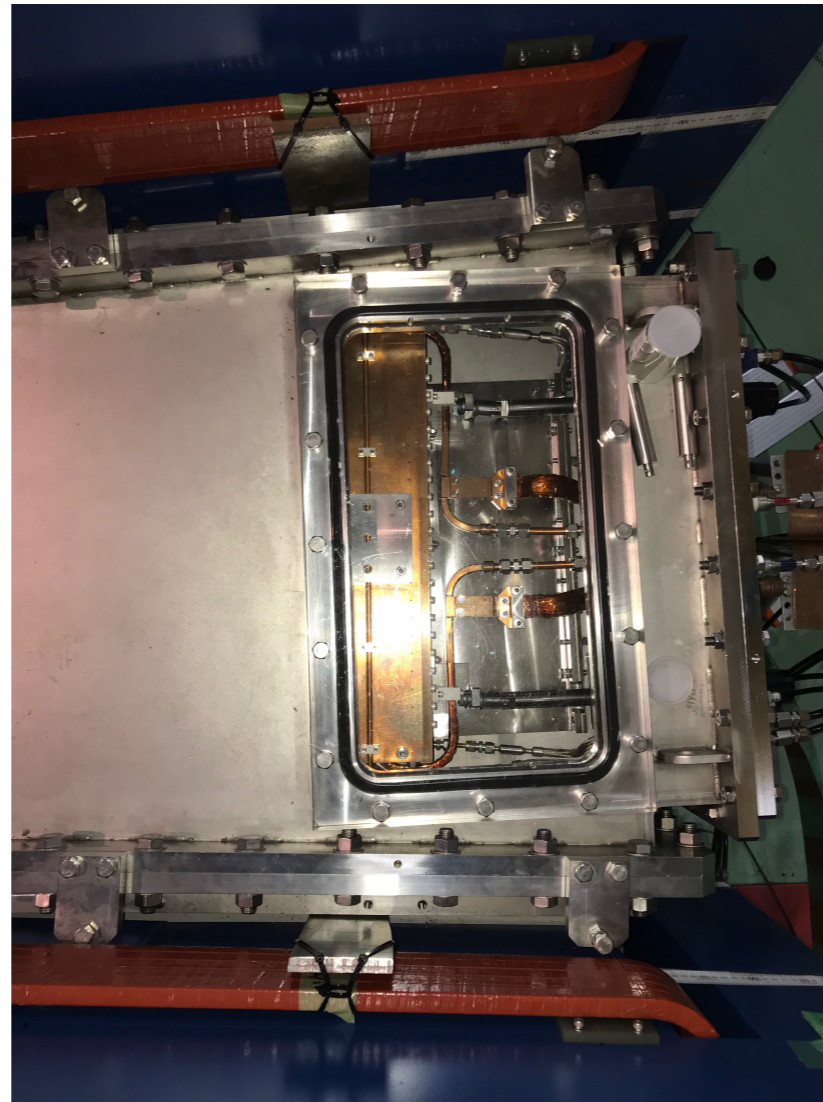
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1. Main Ring Study

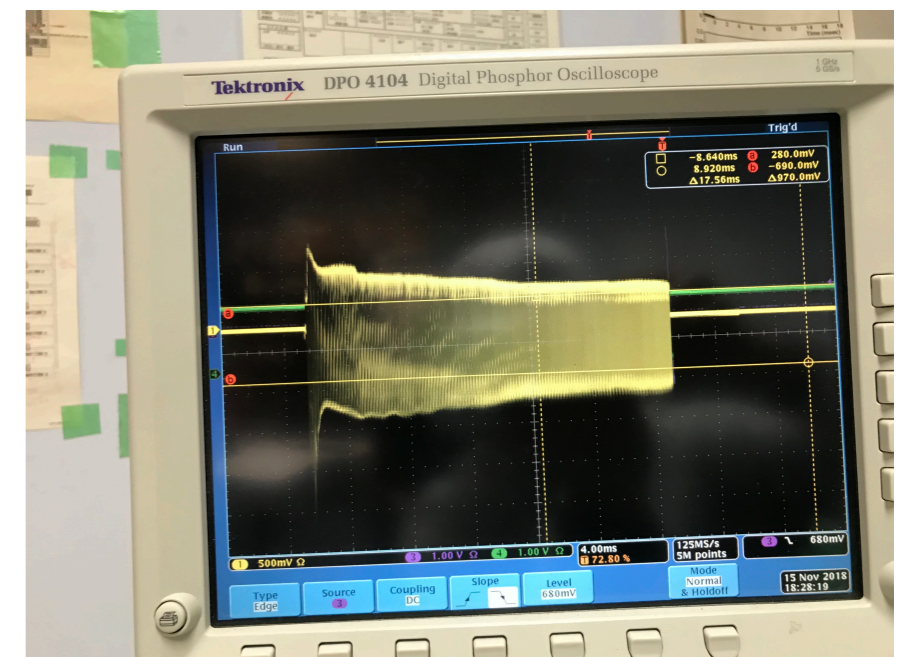
- 100 MeV extraction
- intensity up for the ADS experiments in the next January.



Large beam loss around 20 ms



Patch relocated at proper position
i.e. the inner edge of the patch has
been located at the same position
in R as the edge of the SME



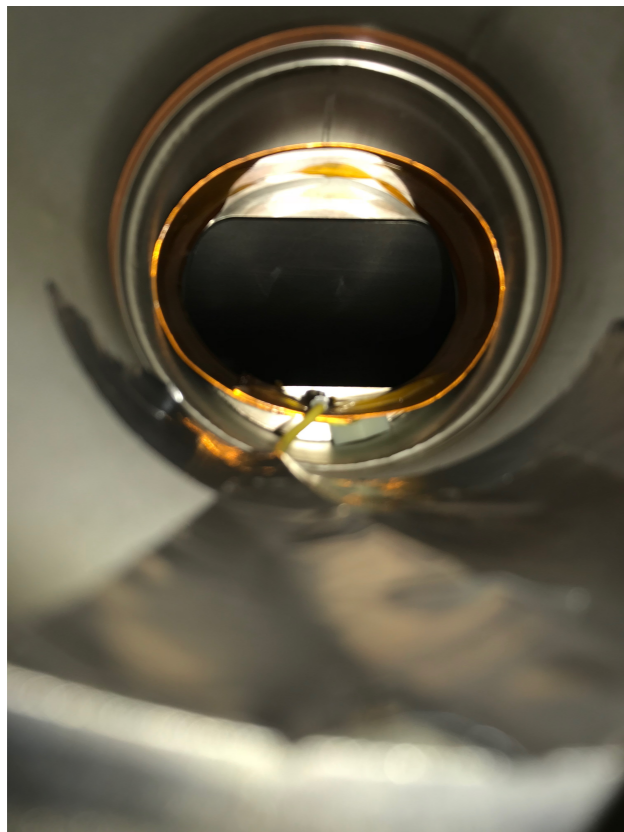
The beam loss disappeared!

Summary of the beam current at each point

1. FC before the injection : 100 nA
2. Circulating beam right before the extraction 1.2V measured by the S11 (snake) bunch monitor : 12 nA?
3. FC right after the extraction : 2 nA

Extraction efficiency is too bad!

To evaluate the transparency of the BT line and the main ring diagnostics equipments were prepared such as a CT, bunch monitors.



The elliptical bunch monitor right after BM2 in HMBT.

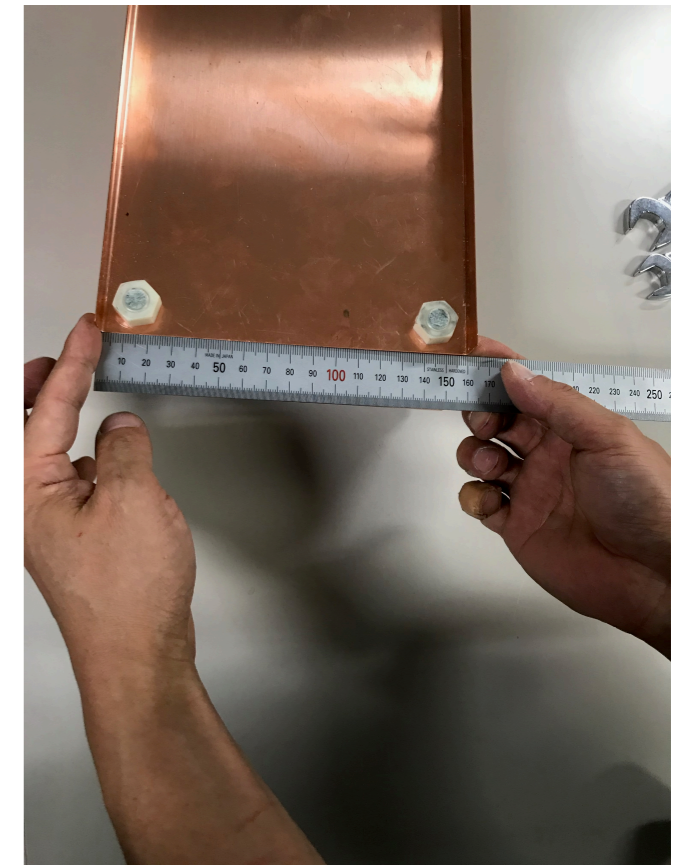


Followed by CT



Yellow: The elliptical bunch monitor
Blue: CT
Green: Faraday cup right before the injection

The full-aperture bunch monitor will be installed at S7



Schedule

1. Main ring study for ADS experiments : Nov. and Dec.
2. MERIT study one or two weeks some time in Nov. Dec.
3. ADS experiments 7th Jan. - 22nd Feb.
4. Some study on MERIT after ADS experiments