



Week Summary Report

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A. Overall Summary

Week type: Experiments

Date/Week Number: 26/04/2021 to 30/04/2021 (Week 5)

EDMS number: 2493388 - 2508859 - 2516061

Beam time: 4 days

Fatal Failure time: 0 days

Installation time: 2 days

Number access: 8

#	Experiment Name	Responsible	Institute	Installation time	Access number	Beam time
1	Beam Loss Monitor w/ optical fibre	S. Berrocal	CERN/BI	7 h	4	10 h
2	AWAKE Spectrometer	M. Bergamaschi	CERN/BI	0 h	0	8 h
3	Cherenkov button BPM	Eugenio Senes	CERN/BI	11 h	4	6 h

Weekly activity

This week was dedicated to three experiments:

- Optic Fibre Beam Loss Monitor
- AWAKE spectrometer screen calibration
- Cherenkov button BPMs

All the experiments have achieved successfully their objectives.

B. Day by day report

Monday

Optic fibers Beam Loss Monitor

- Resuming angular scans of two types of optic fibers installed directly in the beam
- Beam charge scans on 4 angular positions close to Cherenkov angle

Access: 2 for installing and changing the fibers



Tuesday

Optic fibers Beam Loss Monitor

- Beam charge scans on 3 different optic fibres

Access:

2 for changing the fibers

Wednesday

AWAKE spectrometer screen calibration

- Delay scan to determine the decay time of the screen
- Charge calibration comparing image pixel intensity with Beam Charge Monitor at a fixed delay
- Field of view sensitivity using the long linear stage to displace the camera vs. the screen

Access: none since configuration previously installed on VESPER test bench

Thursday

Cherenkov BPMs

- Single bunch position scan with a charge of 150 pC
- Bunch number scan on the centered device

Access:

2 for installing and changing the button size (6mm diameter)

Friday

Cherenkov BPMs

Position scan, much lower beam charge are requested when using RF transition

Parasitically: noise evaluation on the BLM sensors without fiber when beam hits the copper target

Access:

2 for swapping antenna horns by RF transition

And also Awake filter installed for next week, copper targets for next week BLM test

Other business

Reconnection of the WFM cables on the ACS RF pick-up

Additional resources

C. Main issues

- ◇ none

D. Action needed to be followed up

- Reconnection of the thermalized water pipes on the X-band ACS
- Re-installation of safety valve on gas pipe for P.L.



clear