

LHC Operation Status

D. Nisbet for the LHC-MC and LHC-EiC team

Tuesday 29/11/2022

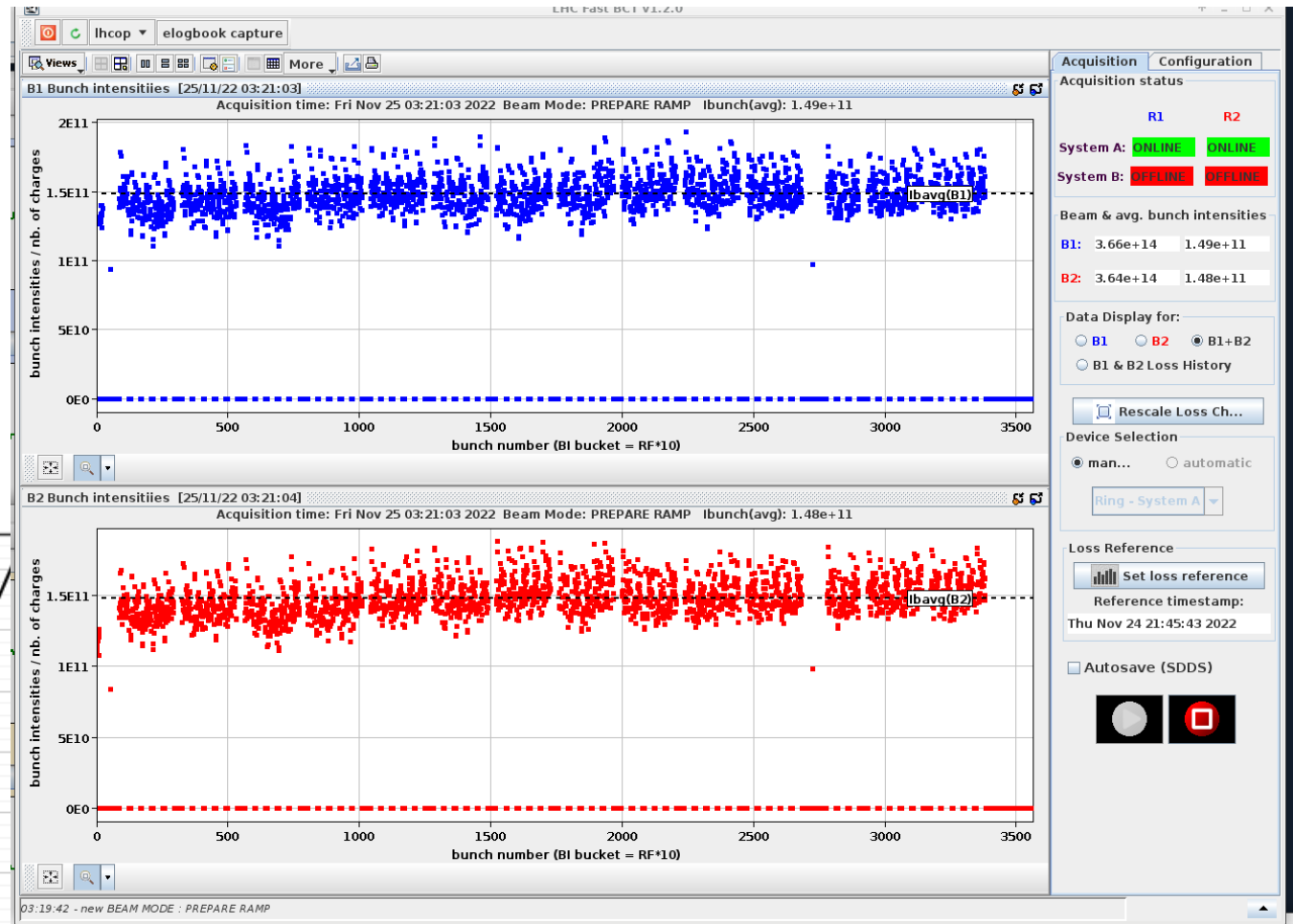
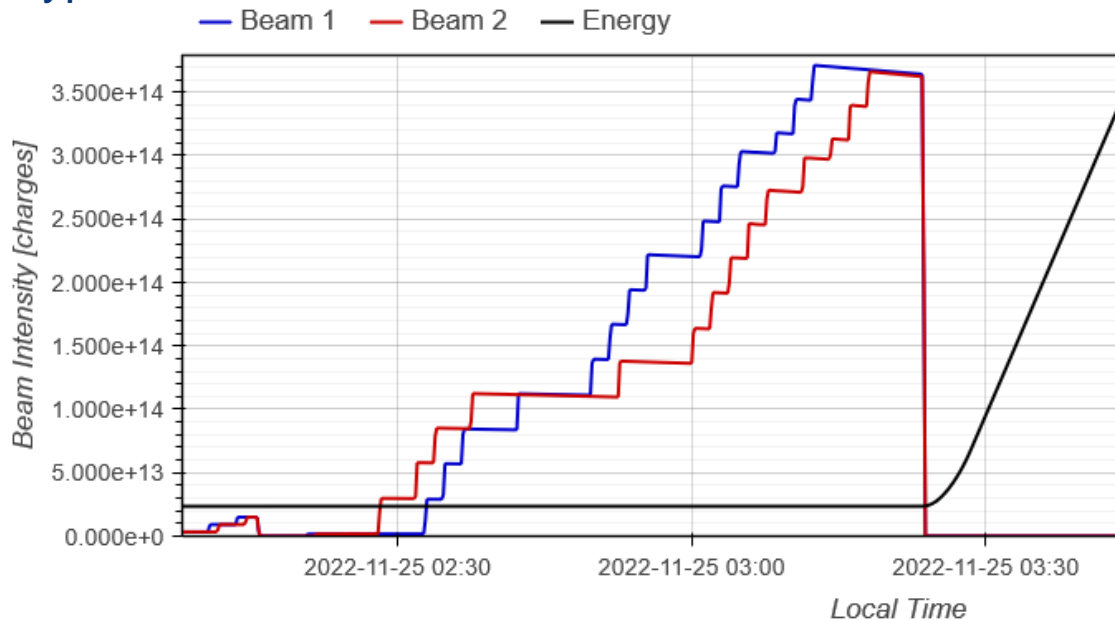


Losses at IR3

Beam from injectors had higher intensity spread for the fills which dumped

Much improved by the weekend – many thanks!

Dumps are due to losses at start of ramp, typical if there is de-bunched beam



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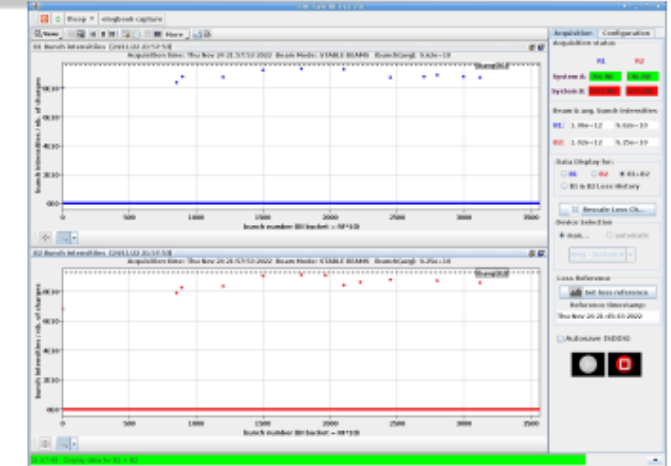
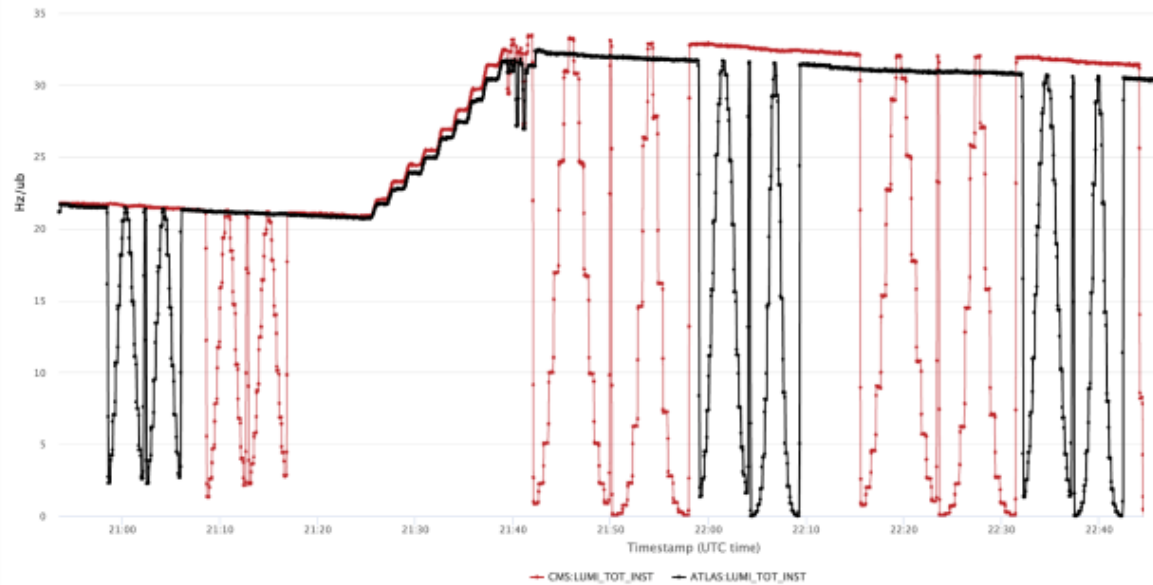


BSRT fill

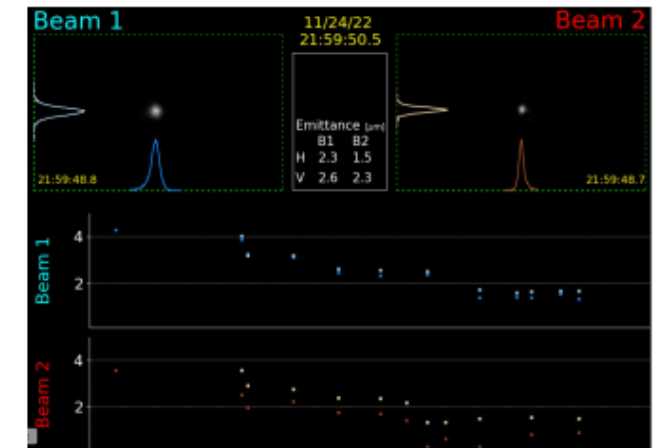
Bunch intensities @ start of SB

BSRT fill on Thursday evening:

- Both machine and experimental scans carried out successfully
- Passing the wire scanner creates background in CMS



Emittances @ start of SB



Single_12b_9_1_3_BSRT_2018_pilot

UPR intrusion



During the access on Wednesday morning we received a status error from a UPR53 door

- Blocking operation -> launch special investigation procedure

Intervention by RP, Access and Fire Brigade

- Discovered a forced door in UPR53
- Delayed end of access by 2 hours

Investigation found works in proximity by a Hi-Lumi team (demolishing the wooden door)

PROCEDURE

Conditions d'accès dans les UA/UPR jusqu'à l'installation de la ventilation définitive

ABSTRACT:

Ce document décrit les modalités d'accès pendant la durée du Run 3 du LHC aux zones UPR13 et UA13, UPR17 et UA17, UPR53 et UA53, UPR57 et UA57 dans le cas de maintenance préventive ou corrective sur des équipements de HL-LHC.

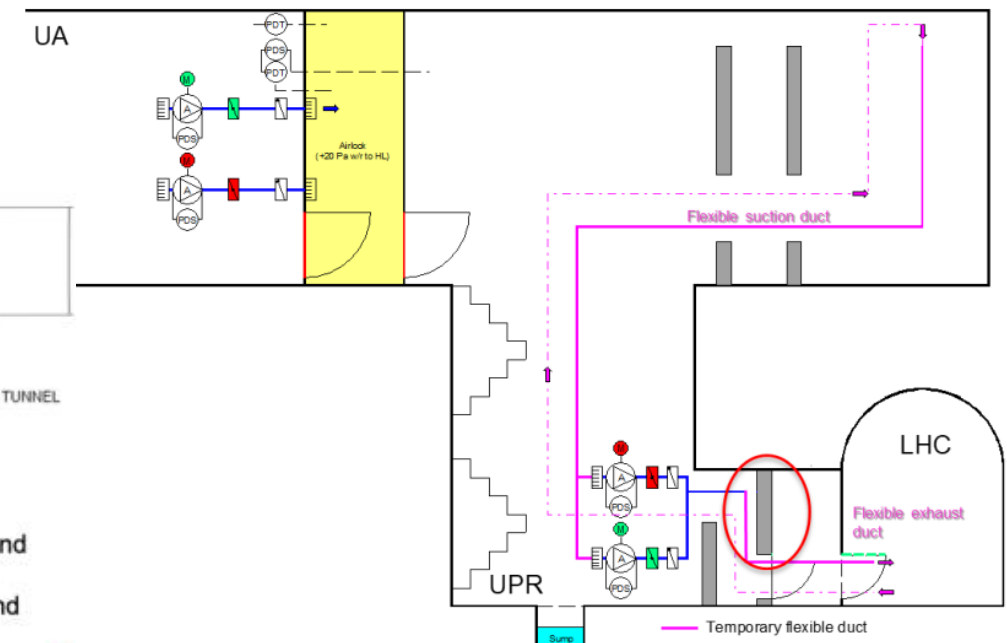
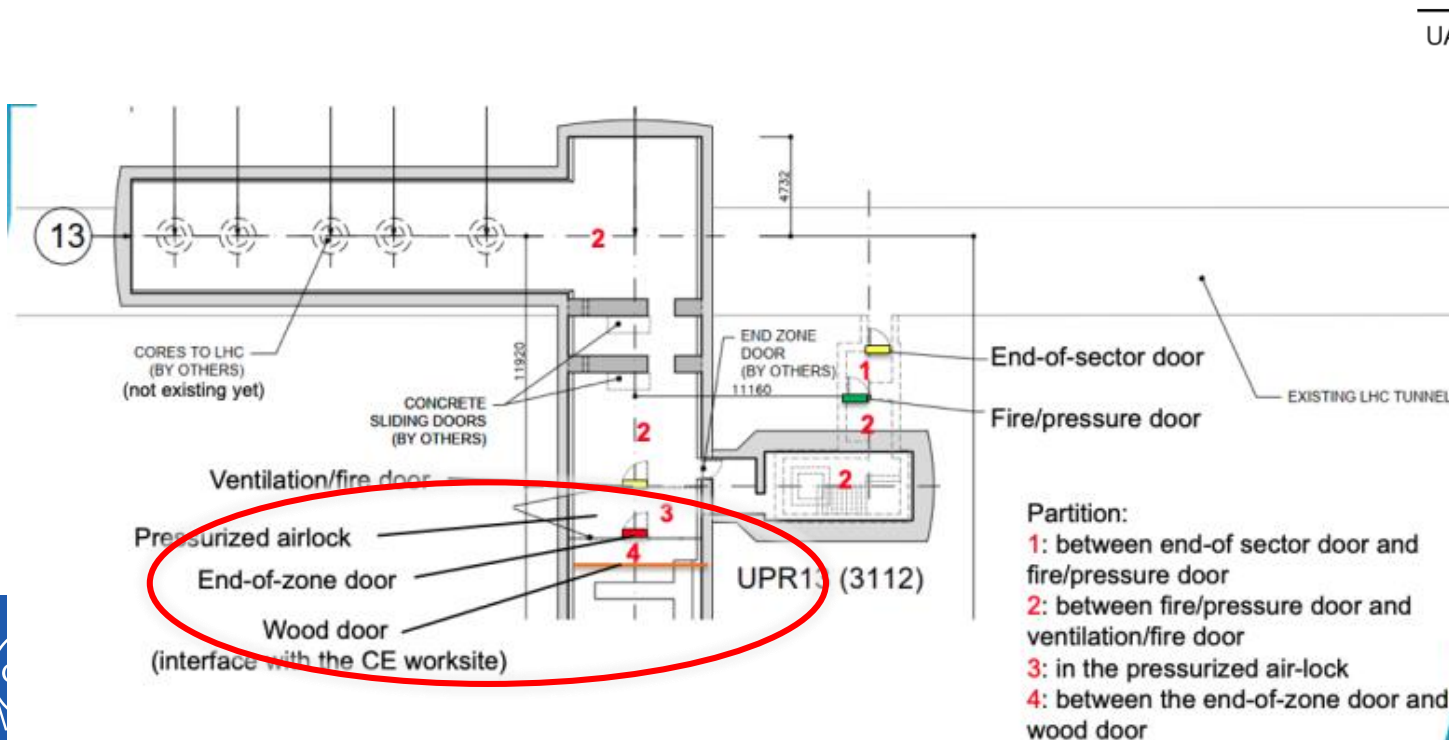


Fig. 2: Schéma de ventilation entre LS2 et YETS 2022/23