# Sudden beam losses during stable beams 

- update -

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## Observations since last WG

[ 5 fills with filling scheme: 13b_8_8_8
Fill 1225 L above $10^{30}$, no sudden losses, "gentle" lumi scans, FMCM dump
Fill 1226 L above $10^{30}$, no sudden losses, "gentle" lumi scans
Fill 1229 L above $10^{30}$, no sudden losses, damper studies at end ? $\rightarrow$

Fill 1232 L above $\mathbf{1 0}^{30}$, losses, usual pattern (i.e. bunches 1 4) $\rightarrow$

Fill 1233 L above $1.5 \cdot 10^{30}$, no sudden losses, damper partially on

## Schottky spectra - bunch 1



$\rightarrow$ Transverse Schottky spectrum bunch 1 (collisions $1,2^{\prime}, 5$ )
$\rightarrow$ Fill 1229, Damper on?

## Schottky spectra - bunch 10941


$\rightarrow$ Transverse Schottky spectrum bunch 10941 (collisions 2',8)

## Schottky spectra - bunch 6001


$\rightarrow$ Transverse Schottky spectrum bunch 6001 (no collisions)

## Damper test

Instantaneous Luminosits
UBClated: 12454448

$\rightarrow$ Luminosity with and without transverse damper (fill 1229)

## Damper test


$\rightarrow$ Luminosity with and without transverse damper (fill 1233)

## "Sudden" losses, Fill 1232


$\rightarrow$ Losses in fill 1232

## "Sudden" losses, Fill 1232

- According to logbook:
- Beams not colliding anywhere when bumps collapsed (reference ?)
- Scan in IP1/5 between 19:20-19:35, extensive scanning in IP2 after


## "Sudden" losses, Fill 1232

Timeseries Chart between 2010-07-17 18:00:00 and 2010-07-17 21:00:00 (LOCAL_TIME)
-RPLB UA233. RCerHS4.L281:I_MEAS

$\rightarrow$ Scan in ALICE ...

## "Sudden" losses, Fill 1232



RCBYHS4 Current [A]
$\rightarrow$ Scan in ALICE (details)

## Possible actions:

- Same as last meeting, most could not be done
- Should manage to provoke losses, seems not easy for already weaker beams

