SPS: The Dark Side







- Bad year for kickers: (60h downtime)
 - Termination resistor (MKP),
 - Problems with trigger units,
 - Leak on feed through on Dump Kicker, ...

CNGS:

Targar Horn power/converter MUL

L %SYN

H2/H4 H6/H8

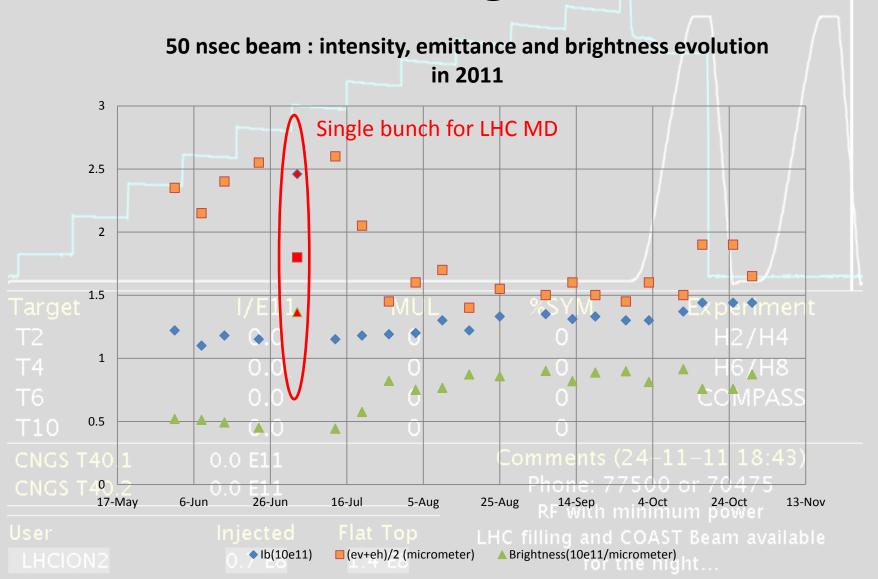
- 6 Trouble in the North:
 - TAX motors blocked (late start of FT physics)
- TT20: two vacuum leaks near splitters
- New North Area access system with some child diseases
 (33hrs downtime, more than for RF power) AST Beam available

SPS: the Bright Side
SPS-PAGE1
SPS-PAGE1
SC 63127 (47BP, 56.4s) Pushing the Limits: update: 7 seconds ago
New performance records

- 50 ns beam: 2.16 10^{13} protons per shot in 144 bunches of 1.5 10^{11} protons with emittance of 1.9 μ m.
- 25 ns beam: 3.17 10¹³ protons per shot in 288 bunches of 1.1 10¹¹ protons with emittance of 2.9 μm.
- CNGS: 3.85 10¹⁹: integrated number of protons on CNGS target.

 3 10¹¹ protons/bunch (4 bunches)sent for neutrino time of flight measurement.
- LHC ions: 24 bunches spaced by 200nsec using 12 injections from Phone 77500 or 70475
 - 1.4 108 ions/bunch with emittance of 0.7 µm in minimum power
 - ser Injected Flat Top LHC filling and COAST Beam available LHCION2 0.7 E8 1.4 E8 for the night...





不是國際

SPS-PAGE1 SC 63127 (47BP, 56.4s)

New Stuff

25-11-11 04:01:33

ast update: 7 seconds ago

New experiment HiRadMat finished and commissioned.

Q20 optics defined for protons and ions.

Target I/E11 MUL %SYM Experiment

T2

Single bunch to CNGS for neutrino time of flight.

T6

0.0

0

COMPASS
T10

• 100 ns proton beam for p-Ion collisions in LHC.

user LHCION2 Injected 0.7 E8 Flat Top 1.4 E8 RF with minimum power
HC filling and COAST Beam available
for the night...

SPS-PAGE1 Current user: LHCION2 25-11-11 04:01:33 SC 63127 (47BP, 56.4s) The Final Words update: 7 seconds ago

High machine performance and flexibility.

More than 20 new cycles created in 2011.

Target cl/Ell ...MUL ... %SYM c ... Experiment

Average of 146 shifts in the year for the SPS.

T4 0.0 0 0 H6/H8
T6 0.0 0 0 COMPASS

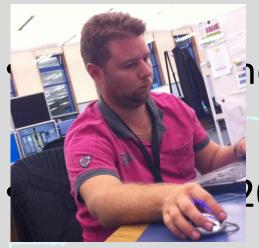


Shifters feel tired at the end of the year.

Jser LHCION2 Injected 0.7 E8

Flat Top 1.4 E8 RF with minimum power
HC filling and COAST Beam available
for the night...

SPS-PAGE1 Current user: LHClON2 25-11-11 04:01:33 SC 63127 (47BP, 56.4s) The Ends Words update: 7 seconds ago



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