

Arrivals & Departure

CR

East hall

- 2 new PS operators
 - Jean-Charles Dumont
 - Christoph Kittel



- Davide Gamba (CTF3)
 - Alexander Huschauer (PS)
- Retirement of Gilbert Adrian
- Leave of Franck Peters









South hall

Linac II

Rodolphe Maillet

100m

FA58

New PS Machine Supervisors

East hall

- Ana Guerrero Ollacarizqueta (BI-SW)
 - Working on fast wire scanners software



- Jakub Wozniak (CO-DA)
 - Working on Software Interlock
 System (SIS)



South hall

100m

Linac III / Linac II

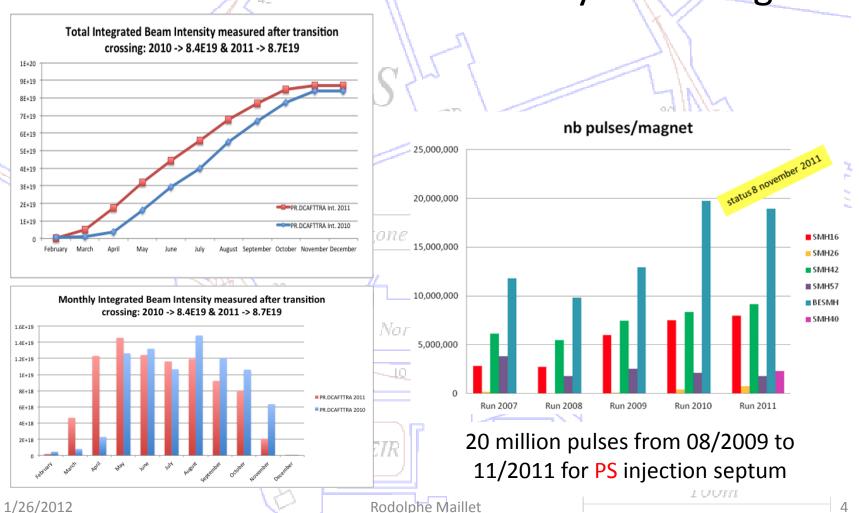
Rodolphe Maillet

LEIR

PS overall performance

East hall

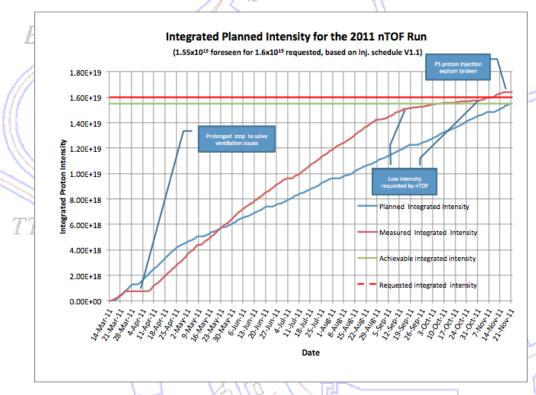
Above 90% PS machine availability on average



nTOF 2011

Planned 1.55E19, requested 1.6E19

Accumulated in 2011: 1.639E19



East hall

Thanks to all who contributed

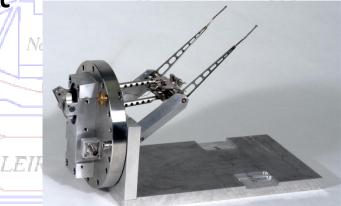
- 10 day stop due to ventilation and air activation issue in spring and prolonged period of low intensity running in October were largely compensated.
- Reasons for this success: High machine availability and continuous super cycle and beam intensity optimization

100m

PS main problems

East hall

- Proton injection septum 42 failure on 16/11
 - Replaced during the winter shutdown
- Vacuum leaks on Fast Wire Scanner 65 (vertical) Saturday 11/06 and FWS 54 (horizontal) Sunday 13/11
- POPS difficult start



Pictures from A.Guerrero

Linac II

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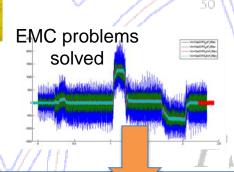
Booster

22/03

POPS & MPS Pulses

02/09

FA58



Optimized
Flat-top
Arrival
0.4 Gauss overshoot

POPS MPS ~ 7.72 Mp

POPS ~ 1.63 Mp

MPS ~ 3.69 Mp

2250 2300 2350

POPS ~ 0.25 Mp

for 12560 Gauss

11/02 _____ 04/08

The conseitens have sweller

10/11

For the next 25 years

The capacitors have swollen



The "multi-contacts" melted

In total the PS magnets pulsed about 15.6 Million pulses in 2011

PORS pulsed about 4.3 Mp.

PORS pulsed about 4.3 Mp.

PORS pulsed about 4.3 Mp.

LEIR

- POPS pulsed about 4.2 Mp
- MPS pulsed about 11.4 Mp

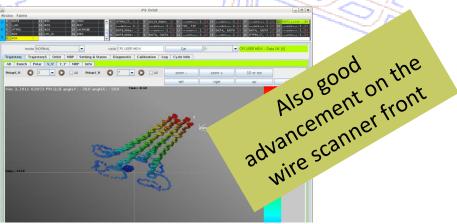
Slide from R.Steerenberg

"New" PS Orbit Measurement System

East hall

- The PS was equipped with new orbit measurement electronics in 2010.
- Many progress has been made in 2011 thanks to the close and fruitful collaboration between OP and BI.
- Few improvements and issues are presently being addressed
- New system and support highly appreciated by OP!



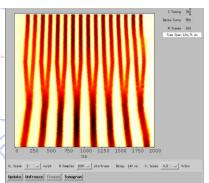


Making x-x' measurements for MTE possible

Slide from R.Steerenberg

H.Damerau & S.Hancock

Outlook 2012



- Beam operation for physics
 - LHC beam operation/production > bright beams
 - Beams for all other physics users (TOF, EAST, AD ,CNGS, SFTPRO,.....)
 - Last year for DIRAC in the PS
- Machine Development studies
 - Studies on "Batch compression" for high brightness LHC beams
 - Decisive MDs for LIU project
 - TT2 MDs for MTE 26 Inflector zone
- Decisive year for POPS (last year of motor generator set as spare option)

 North hall
- Perhaps in 2012 approval for East Area renovation project
 - Study will be presented on 1st of February

South hall

I00m

Linac II

