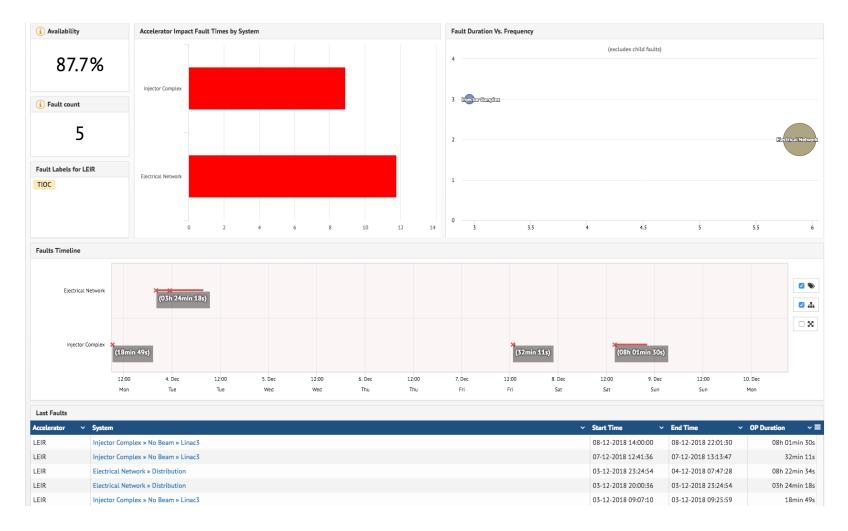
LEIR Summary Week 49

A. Saa Hernandez for the LEIR team

Performance



Beam extracted towards the fixed target experiments quasi-continuously from Tuesday noon on, once recovered from the power glitch, except for a couple source interruptions.

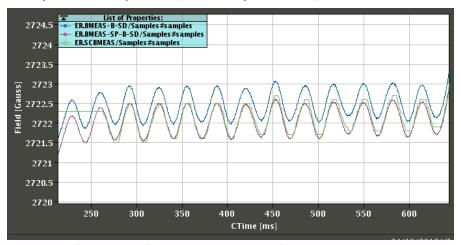
Recovery from power glitch

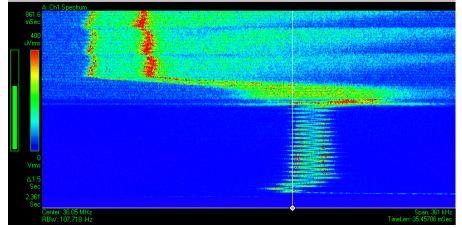
Reboot several servers, with which communication had been lost (confusing in some cases as panels would not show errors)

Tune ripple on main bends: 50Hz and 1G peak-to-peak (usually <0.2G)

- Independent from Btrain version
- Could be observed also also for DC field
- Present after change of regulator card
- Not negligible for beam

"Spontaneously" cured on Tuesday evening, no source identified ☺





MDs

Tests with turn-by-turn BPM system continued: tune could be reconstructed during ramping and at flattop, with clean measurements.

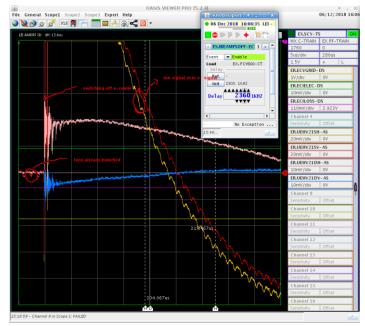
Cycles

Filter:

Security State of the State

Thanks Guillaume and Verena!

Investigation to understand if the position of the electron beam in the electron cooler could also be measured with the use of the ion BPMs



Thanks Davide and Alexandre!

Reinforcement learning: performance as a function the orbit bumps at the cooler while observing the energy distribution and cooling times. Thanks Simon!

Reference Measurements

Many, pretty much of everything, on the different operational cycles...

- On LEIR elogbook
- On project drive: eos/project/l/liu/LEIR/data/2018

