

High pileup fill

High pile-up fill requested by ATLAS/CMS to study high luminosity scenarios for next years.
Possible options presented in talk by Elias at LMC:

https://indico.cern.ch/event/574768/contributions/2325440/attachments/1348784/2035078/LMC_HPU_EM_05-10-16.pdf

Converged on setup:

2x48b trains (BCMS) with $1.3e11p/b$

3 colliding + 1 non-colliding INDIV with $\sim 1.8e11p/b$

Proposed filling scheme: 25ns_100b_99_0_0_48bpi_6inj (ATLAS/IBL fixed frequency veto)

Considerations:

injection of INDIV tested in MD4

injection of high intensity trains tested in PS but not SPS yet (needs to be done before test)

ADT needs to be in high gain mode

Not sure about BPM settings?

FBCT saturates at $2e11$ (should be below that)

AFP pots would like to be inserted (to usual 20σ) for $\sim 1hr$

Proposal:

Planned to happen on Friday (at efficient time for physics, based on previous fill)

$\sim 3hr$ SB

