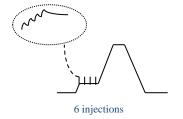








Proposed Pb-Pb 50/75 ns scheme for after LS2



LEIR (1.6 10⁹ Pb ions / 3.6 s)

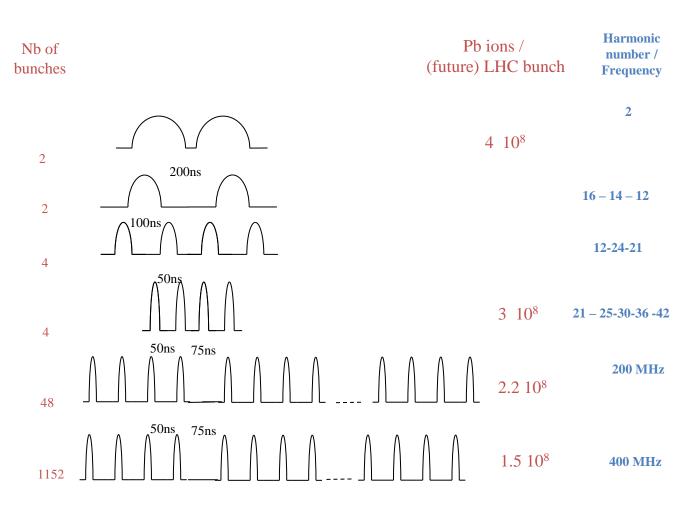
PS batch expansion

PS bunch splitting followed by batch expansion (100ns bunch spacing)

PS batch compression (50ns bunch spacing)

SPS at injection after 12 transfers from PS, with 75ns batch spacing

LHC at injection, after 24 transfers from SPS







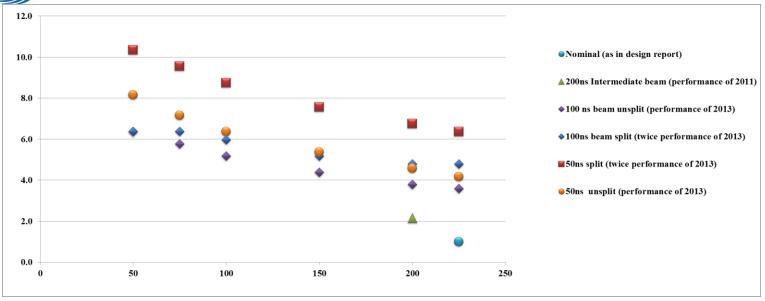
LHC Injectors Upgrade

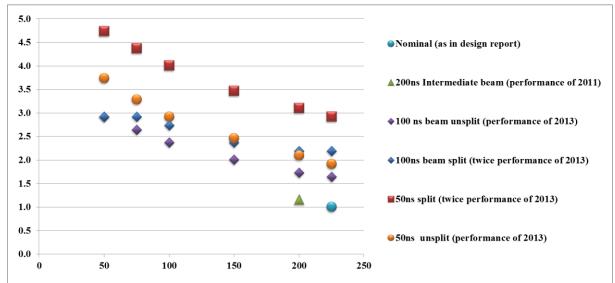
THANK YOU FOR YOUR ATTENTION!





12 injections in SPS: peak lumi and intensity scaling

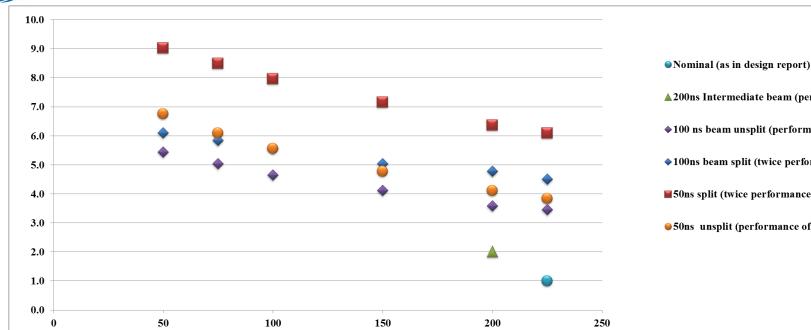


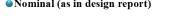






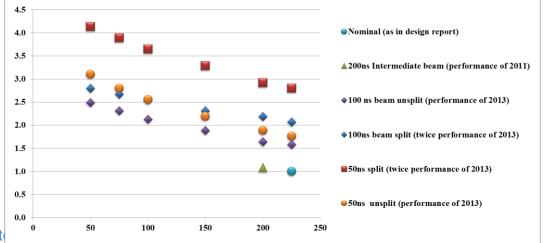
8 injections in SPS: peak lumi and intensity scaling





▲200ns Intermediate beam (performance of 2011)

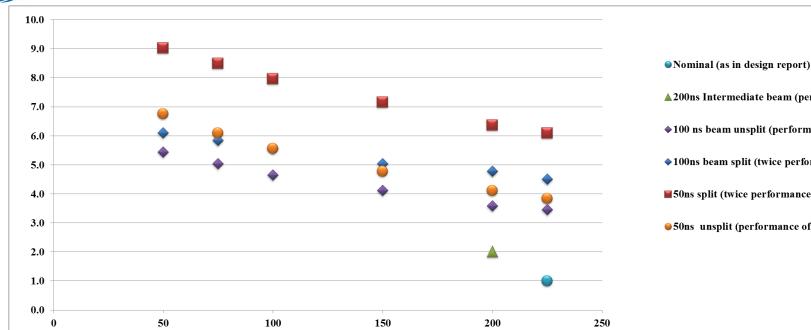
- ♦100 ns beam unsplit (performance of 2013)
- ♦100ns beam split (twice performance of 2013)
- ■50ns split (twice performance of 2013)
- ●50ns unsplit (performance of 2013)

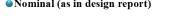






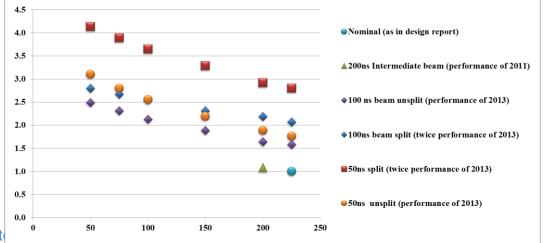
8 injections in SPS: peak lumi and intensity scaling





▲200ns Intermediate beam (performance of 2011)

- ♦100 ns beam unsplit (performance of 2013)
- ♦100ns beam split (twice performance of 2013)
- ■50ns split (twice performance of 2013)
- ●50ns unsplit (performance of 2013)







Optimum number of injections into the SPS (50/75ns)

