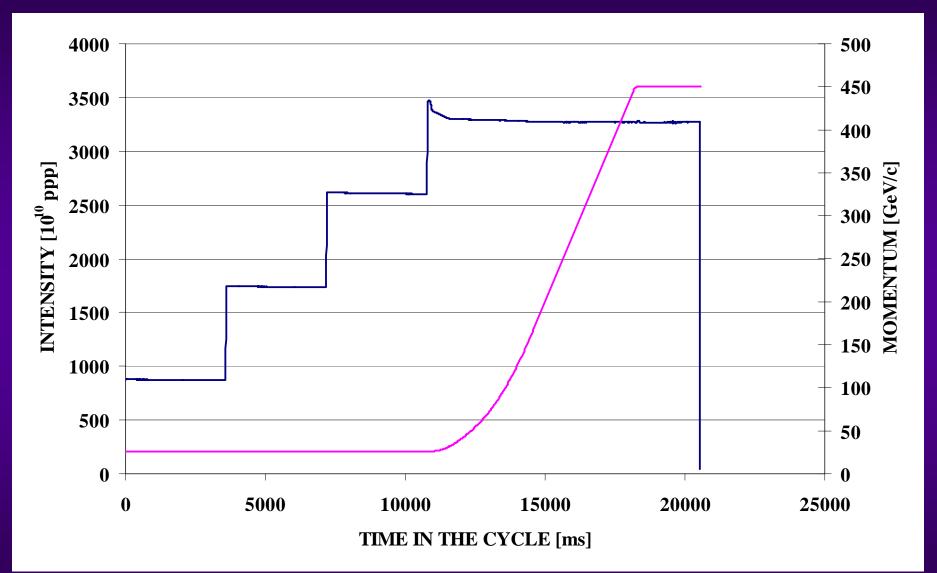
6 PS TSTLHC CYCLES IN THE SPS INSTEAD OF 4 PS LHC CYCLES?

G. Arduini and E. Métral

- Result at the end of 2004 => 4 × 72 = 288 bunches with 1.15E11 p/b (~ 3.3E13 p at 450 GeV/c). There are 3 gaps in the bunch train of 225 ns each (minimum for the SPS injection kicker)
- In 2006, the maximum obtained is 4 × 72 = 288 bunches with ~ 0.6-0.7E11 p/b (due to a PS H instability) ⇒ ~ Half nominal intensity
- Proposition: 6 × 48 = 288 bunches with 1.15E11 p/b (~ 3.3E13 p)
 In this case the bunch train will be longer by 2 × 225 = 450 ns
 This could be used for the collimator tests (see last APC)
- What would happen in the LHC with such bunch trains? What about beam-beam?...

Elias Métral, RLC meeting, 24/10/06

Result at the end of 2004



Best case on 17/10/06

