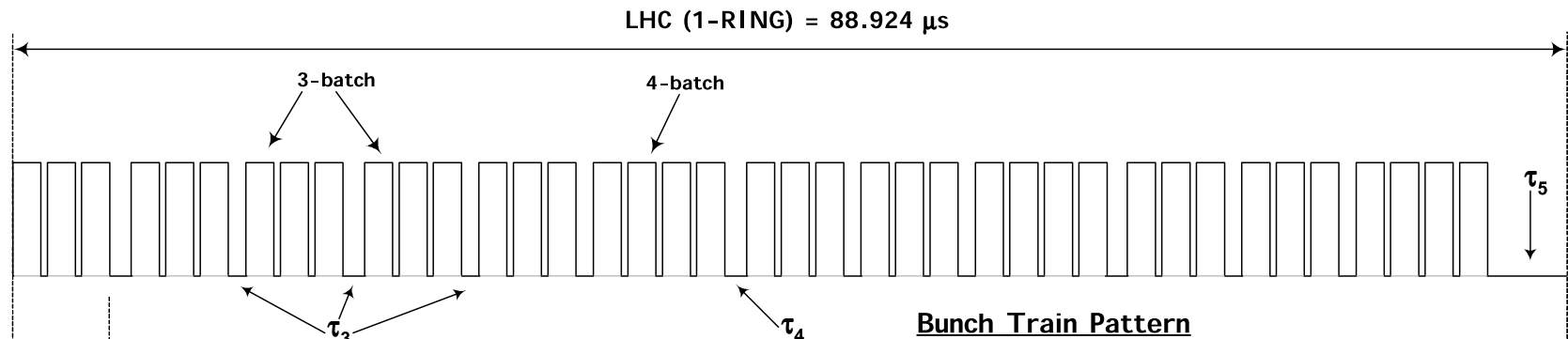


Nominal Proton Bunch Pattern in the LHC for 25ns Spacing



333 334 334 334

Filling Scheme

$$3564 = \{3 \times [(72b + 8e) \times 3 + 30e]\} + 1e + \{2 \times [(72b + 8e) \times 3 + 30e] + [(72b + 8e) \times 4 + 31e]\} \times 3 + 80e$$

Beam Gaps

- τ_1 = 12 bunch gap in the PS (72 bunches on h=84)
- τ_2 = 8 missing bunches (SPS Injection Kicker Rise time = 225ns).
- τ_3 = 38 missing bunches (LHC Injection Kicker Rise Time = 0.975 μ s).
- τ_4 = 39 missing bunches (" " 1.0 μ s).
- τ_5 = 119 missing bunches (LHC Beam Dump Kicker Rise Time = 3 μ s).

