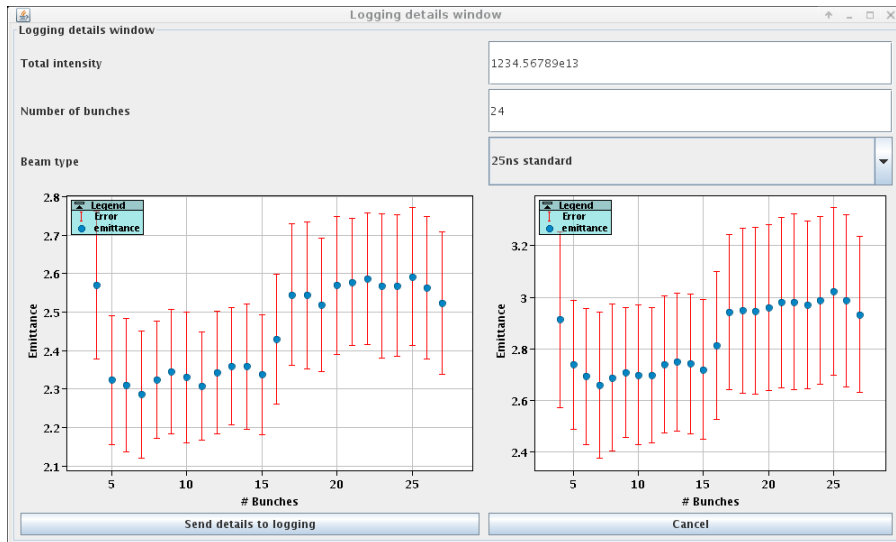


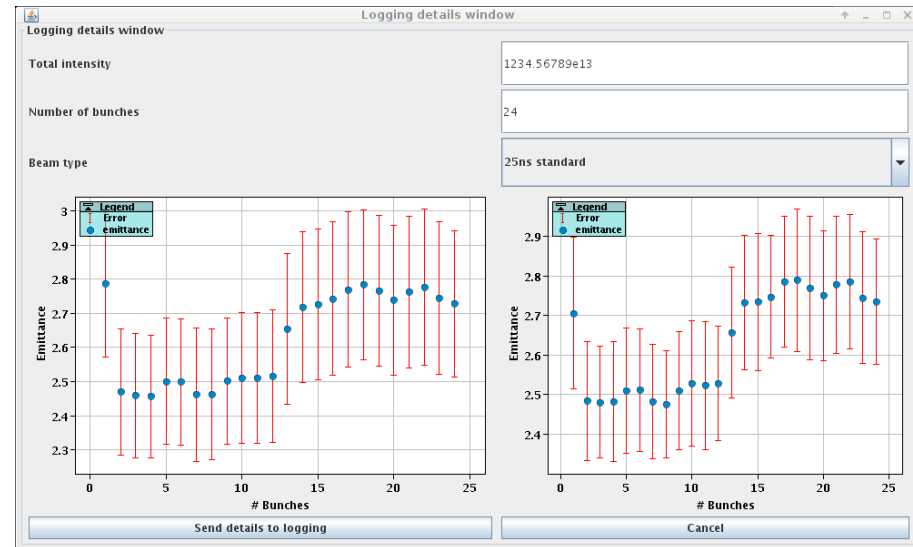
SPS beams – LHC beams

- Last fill for the LHC BCMS up to 3 x 48 bunches: bunch intensity $1.15e+11$, 1.4 μm emittance
- HiRadMat taking 288 bunches – new emittance measurement tool ~ 2.5 μs emittance, $1.15e+11$ ppb

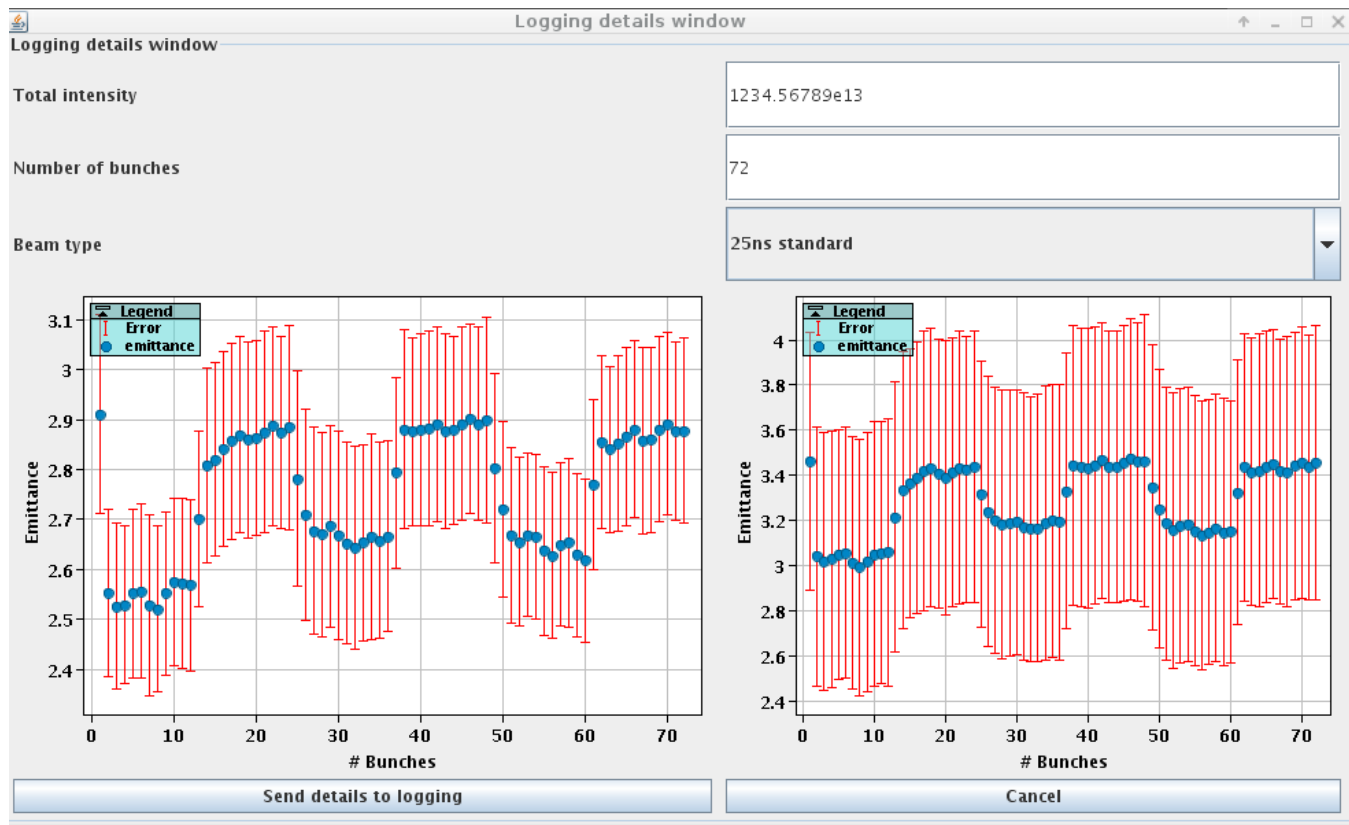
H flattop – 300 ms between scans



V flattop – 300 ms between scans



- Vertical emittances 25 ns standard...other example



Extraction of unstable beam from SPS – 17th of May

- Quenched Q7R8
- Increased afterwards horizontal Chroma by 0.1 end of ramp and on FT



- Other issue with injections into LHC:
 - Orbit changes in the SPS due to FGC rebooting in BA2 and not reloading correct settings.
 - Large transfer line trajectory oscillations

Fixed target beam

- Back at last year's QF regulator for spill quality: less low
- ZS4 broken high voltage feedthrough. Secondary vacuum and ZS4 disconnected.
 - Extraction with only 4 ZS tanks; higher losses on MST, but acceptable

