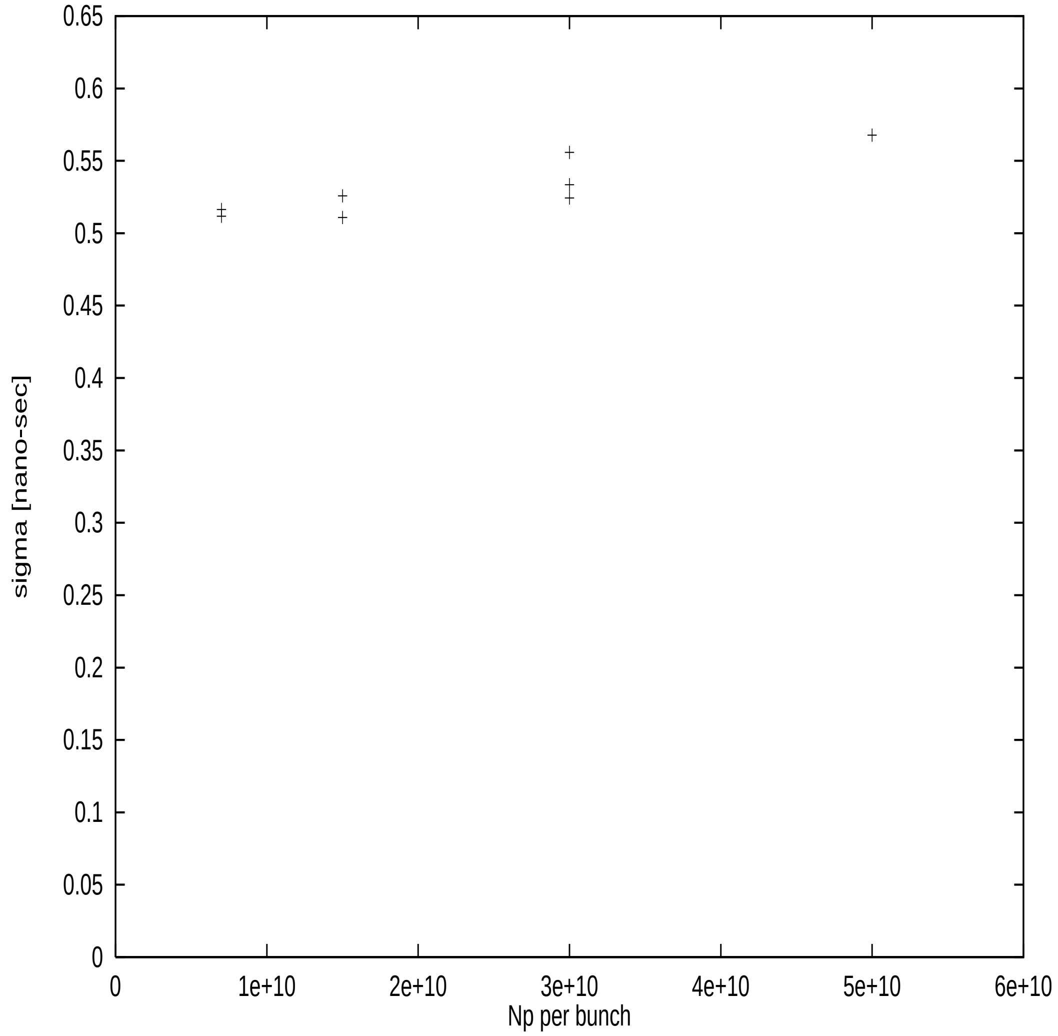

Figure 1: Longitudinal sigma for different ranges of bunch population, 132 ms after injection (1000 ms) when the measured voltage is $V \approx 2.5$ MV. For a voltage of 0.62 MV (and $Np = 2.5e10$) we measure $\sigma = 0.7$ ns. The longitudinal sigma from PS is more or less constant and equal to this value over this range (measured bunch length 2.9,3,2.7,2.9 ns).

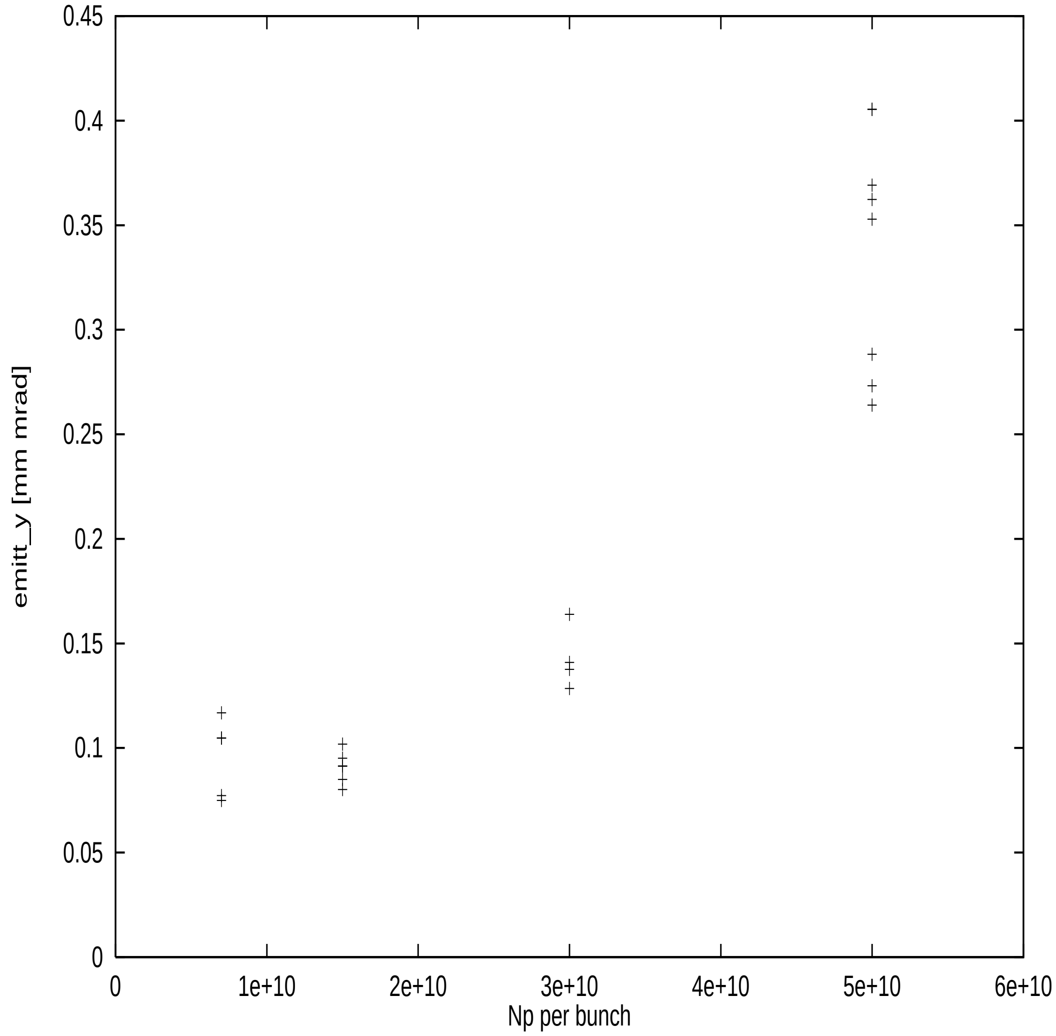

Figure 2: Vertical proton emittance ($4\sigma^2/\beta$) for different ranges of bunch population measured with the wire-scanner at a location with $\beta_y = 22$ m. Typical vertical emittances from PS where: 0.12,0.1,0.1,0.13

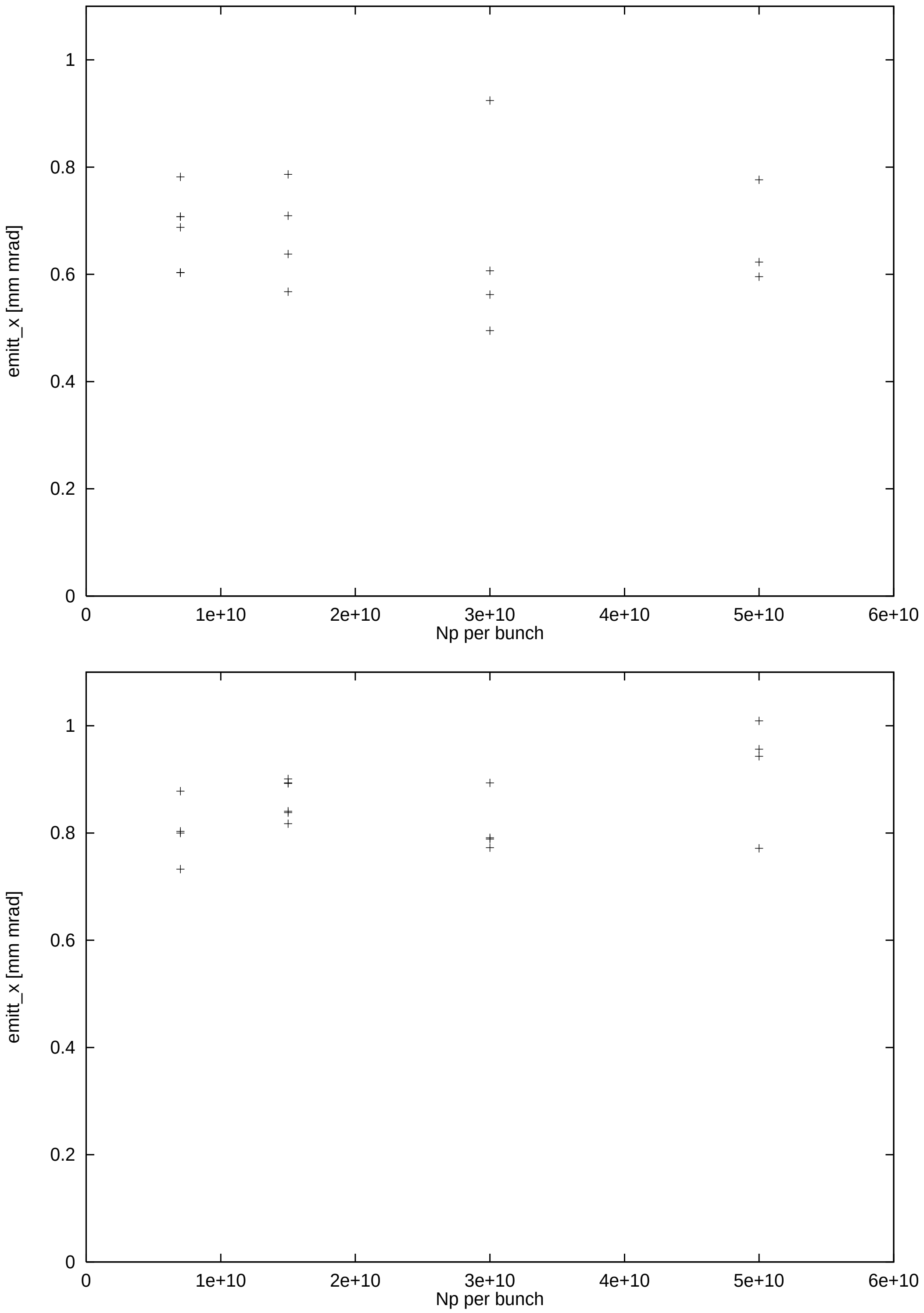

Figure 3: Horizontal proton emittance $(4\sigma^2/\beta)$ for different ranges of bunch population, for the capture potential (above) and after the ramp, at $V \approx 2.5$ MV(bellow). Measured with the wire-scanner at a location with dispersion $\eta = 2.9$ m and $\beta_x = 97$ m. Typical horizontal emittances from PS where: 0.36,0.46,0.4,0.38 and typical $\Delta p/p \approx 1.6e-3, 2e-3, -, 1.6e-3$. $(\eta \Delta p/p)^2/\beta_x = 0.25, 0.35$