Status of the machine studies

LIS meeting, 20/10/08

1) Transverse feedback in the PS (A. Blas)

- Good results discussed.
- Some more time will be taken in parallel.

2) Study of the wide-band transverse SPS PU BPWA 319.01 (W. Hofle)

- I think this still has to be continued.

3) Controlled transverse emittance blow-up in the SPS (E. Métral)

- The objective has been reached, on the single-bunch LHCPROBE beam:
 - $\ At\ 450\ GeV/c,\ sigmax = 0.7\ mm => NormRmsEx = 3.5\ micrometers\ (4 sigmat = 1 ns\ and\ sigmapsurp = 1 ns\ and\ sigmap$
 - = 1.7E-4).
 - At 450 GeV/c, sigmay = 0.58 mm => NormRmsEy = 3.2 micrometers.
 - Reminder: The initial horizontal and vertical emittances were 1.3 and 0.9 respectively.
- The next step is to redo this next Friday 24/10, using a multi-bunch beam: the 72 bunches of the PS nominal LHC25 cycle at 10% intensity.