Floating MD 26th Oct. 2011 (12h):

Title: **Single bunch studies**

1. Studies on longitudinal instability with different settings of the 800 MHz RF, Q26 and maybe Q20 (T. Argyropoulos)
2. Impedance localization in the Q20 and the Q26 optics (N. Biancacci, B. Salvant)
3. Comparing TMCI in Q26 with observations in Q20 (H. Bartosik, B. Salvant)
4. Measurements for the SPS nonlinear model or Emittance as function of intensity (H. Bartosik)

SPS cycles:

Short MD1 cycle (6bp) with Q20 optics **MD\_26\_L7200\_Q20\_V1**

Short MD1 cycle (6bp) with Q26 optics **MD\_26\_L7200\_V1**

Long cycle (18bp) with Q20 optics **LHCMD\_25ns\_Q20\_2011\_V1**

Long cycle (18bp) with Q26 optics **LHCMD\_25ns\_2011\_V1**

Super-cycle composition (prepare two options for flexibility):

I) Short cycle (Q20 or Q26) | Long cycle (Q20 or Q26) | Short cycle (Q20 or Q26)

**MD\_26\_L7200\_V1 + LHCMD\_25ns\_Q20\_2011\_V1 + MD\_26\_L7200\_Q20\_V1**

**or**

**MD\_26\_L7200\_V1 + LHCMD\_25ns\_2011\_V1 + MD\_26\_L7200\_Q20\_V1**

Total 🡪 30bp

II) Short cycle (Q20 or Q26) | Long cycle (Q20 or Q26) | Long cycle (Q20 or Q26)

**MD\_26\_L7200\_V1 + LHCMD\_25ns\_Q20\_2011\_V1 + LHCMD\_25ns\_2011\_V1**

**or**

**MD\_26\_L7200\_Q20\_V1 + LHCMD\_25ns\_Q20\_2011\_V1 + LHCMD\_25ns\_2011\_V1**

Total 🡪 42bp

Users (PSB -> PS):

PSB:LHCINDIV:LHCINDIV 🡪 PS:LHCINDIV:LHCINDIV

PSB:MD4:LHCINDIV\_high\_intSPS\_PSB 🡪 PS:MD8: