

Minutes of the SPS Studies Working Group (SSWG)

11th meeting -15th August 2000

Present: T. Bohl, H. Burkhardt, K. Cornelis (chairman), P. Collier, L. Jensen, D. Manglunki, G. Rumolo, J. Tuckmantel, F. Zimmermann, M.P. Zorzano (secretary)

1 Matters from previous meetings (K. Cornelis)

Following the suggestions from the last meeting K. Cornelis has asked BI about the possibility of measuring the spectrum of the electron motion in the electron cloud. Such an instrument exists but has to be transformed and checked. At the moment there are no people available. Any person interested in developing such a tool is welcomed.

(F. Zimmermann) We could also consider the possibility of borrowing such devices from Argon and install them.

2 PS latest results with 48 LHC-like bunches (D. Manglunki)

Synchronisation works already for the 48 bunches. From the 16th-17th/08 PS should be able to deliver a beam that is longitudinally nominal (emittance, bunch length). Simultaneously the transverse settings will be checked (a bug has been detected in the program used for the automatic settings of the transverse plane). The intensity per bunch (in a train of 48 bunches) is $I = 1.2 \times 10^{11}$ p. If another bunch intensity is desired this should be mentioned in advance since the radial perturbation has to be retuned depending on the bunch intensity. For 16-17/08 they will try to deliver $I = 0.3 \times 10^{11}$ p (well below the electron cloud threshold) and $I = 0.8 \times 10^{11}$ p. The settings for the long MD (30th August) with a long triple injection cycle will be prepared on the 16th and 17th of August, in particular capture will be tested. There will be a 57 ms delay (earlier) for capture.

3 AOB (K. Cornelis)

CPS has managed to go up in intensity and to do emittance measurements. The situation has improved since the injection is done at 1.4 GeV.

There is a chance that LEP operation is extended until the 3rd of December. In this case SPS would operate in a supercycle that feeds LEP and may have the possibility to share it with p cycles and do scrubbing tests if there is no conflict with the civil engineering works on the tunnel. An announcement would be given in due time.

(D. Manglunki) On the CPS side there are presently some problems with the arms that short-circuit the cavities. Until this is solved, the cavities will either operate with leptons or with high intensity protons beams.

4 Next meeting

The next meeting is scheduled for Tuesday 29th August, at 09:15, Room 865-1D17. A reminder will be sent by email in due time and the agenda will be announced on the web page of the working group

<http://cern.ch/sl-mgt-sps-swg>

M.P. Zorzano 16th August 2000