**EXCITATION**

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**Machine:**SPS
**General\_subject:**Other
**ParallelMD\_sessions\_number:**3
**ParallelMD\_hours\_per\_session:**8
**WednesdayMD\_sessions\_number:**0
**WednesdayMD\_hours\_per\_session:**0
**LongMD\_sessions\_number:**0
**LongMD\_hours\_per\_session:**0

### Subject

BBLR distance scan and current scan at 55 GeV/c with WP (0.31, 0.32) and (0.31, 0.285). Using half BBLR1 and 5 s long ﬂattop.

### motivations

To investigate how the BBLR eﬀect scales with the energy and to see if, in the 5 s long ﬂattop, we can distinguish a transient and a steady state loss mechanism. Considering half the wire would allow a better control of the beam-wire separation and subsequently the measurements’ quality would proﬁt of it.

### Participant\_names

Gerard Burtin, Jean-Pierre Koutchouk, Emanuele Laface and Frank Zimmermann.

### Beam

Nb =5 10^10 ppb, 12 bunches at 25 ns, p=55 GeV/c for a plateau longer than 5 s and ϵn > 1.5 mm mrad (optimal ϵn = 5 mm mrad).

### Preferred\_periods

Before the BBLR compensation experiments (since the wires setup are diﬀerent).

### requirements

Half of BBLR1 (BBLR.51771, IMAX = 250 A), CO measurement and control, ϵ measurement, FBCT, BCT, QKICKER, MULTIQ and ξ measurement.

### Publications

<http://cern-ab-bblr.web.cern.ch/cern-ab-bblr/documentation.htm>

### Comments

Before the BBLR compensation experiment, we need 1h technical stop to access to the SPS tunnel and prepare the wires setup.

**COMPENSATION**

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**Machine:**SPS
**General\_subject:**Other
**ParallelMD\_sessions\_number:**1
**ParallelMD\_hours\_per\_session:**8
**WednesdayMD\_sessions\_number:**1
**WednesdayMD\_hours\_per\_session:**8
**LongMD\_sessions\_number:**0
**LongMD\_hours\_per\_session:**0

### Subject

BBLR compensation at 55 GeV/c and 5 s ﬂattop (parallel) + dedicated MD at 55 GeV/c.

### motivations

To investigate how the BBLR compensation eﬀect scales with the energy and to see it in the 5 s long ﬂattop or in longer ﬂattop of the dedicated MD we can distinguish a transient and a steady state loss mechanism. An new range of BBLR2 motion (until 17 mm, wrt the old 19 mm, from the center of the vacuum pipe) would allow a better compensation, perhaps reducing the tune dependence of the compensation itself.

### Participant\_names

Gerard Burtin, Jean-Pierre Koutchouk, Emanuele Laface, Guido Sterbini.

### Beam

Nb =5 10^10 ppb, 12 bunches at 25 ns, p=55 GeV/c for a plateau longer than 5 s and ϵn > 1.5 mm mrad (optimal ϵn = 5 mm mrad).

### Preferred\_periods

After the the BBLR excitation experiments (since the wires setup are diﬀerent). The parallel MD should be before the Wednesday MD.

### requirements

BBLR1 and BBLR2 (IMAX = 250 A), CO measurement and control, ϵ measurement, FBCT, BCT, QKICKER, MULTIQ and ξ measurement.

### Publications

<http://cern-ab-bblr.web.cern.ch/cern-ab-bblr/documentation.htm>

### Comments