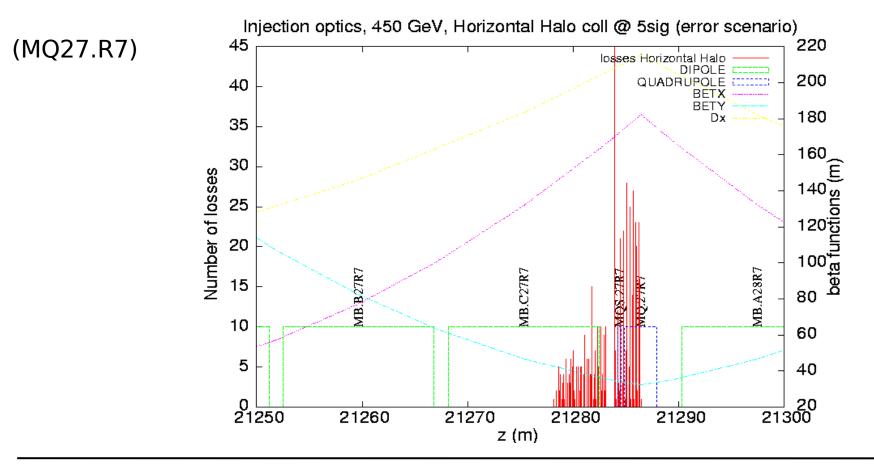
#### <u>Overview of BLM</u> <u>installation drawings</u>

Laurette Ponce (AB/OP)

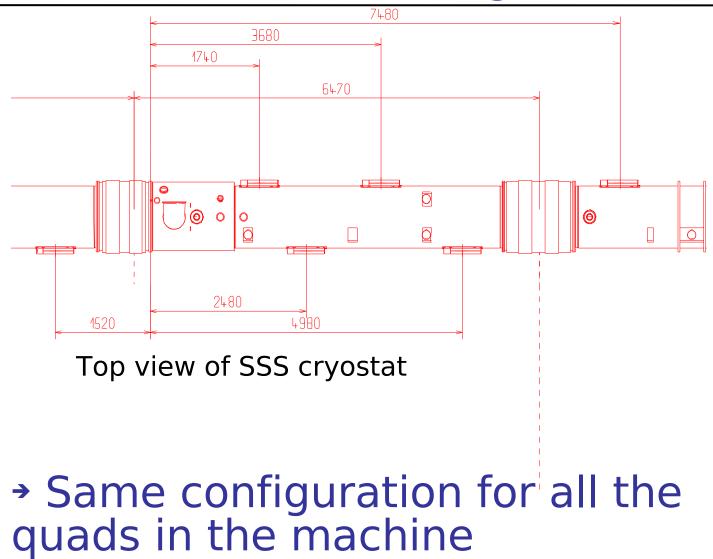
ARCS : short recall
DS IR7
LSS 8

# 1. Position in the ARCS (Reminder)

- Peak before MQ at the shrinking vacuum pipe location (aperture limit effect)
- End of loss at the centre of the MQ (beam size effect)

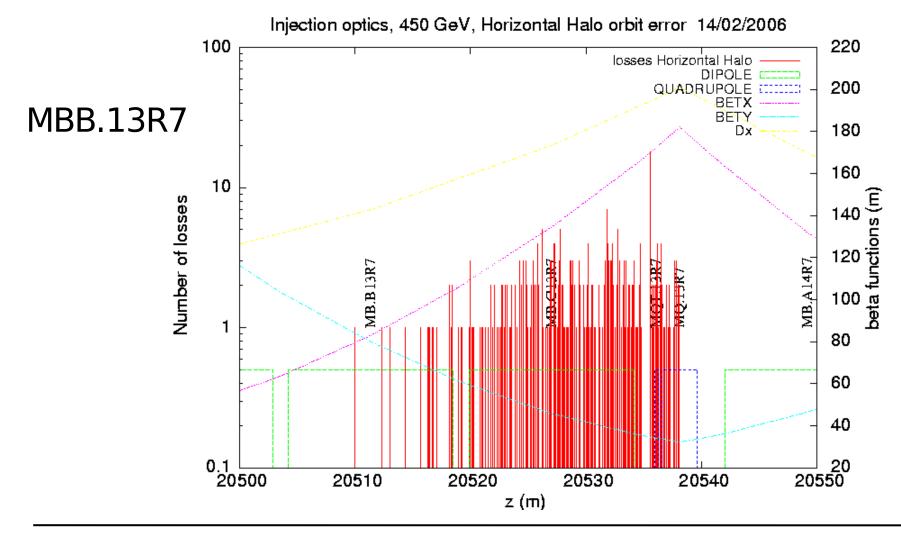


# **Position after integration**



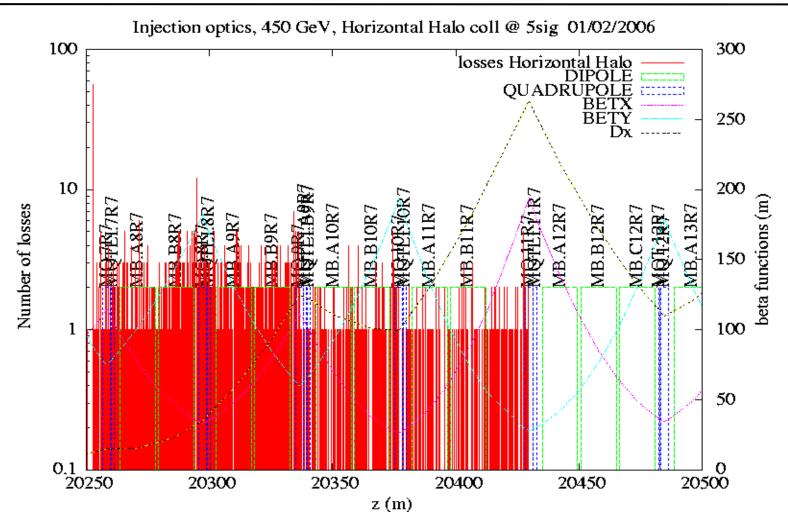
# Special configurations ?

#### Ioss will be "seen" by the BLMs on the quad



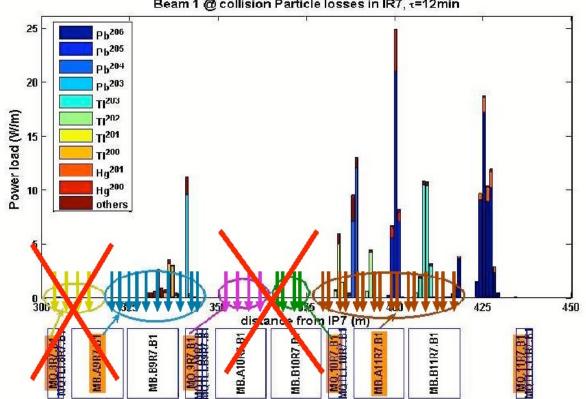
27/11/06

# 2. Dispersion Suppressor IR7



#### peak before the MQs and losses all along the magnets

# Requested positions for ions



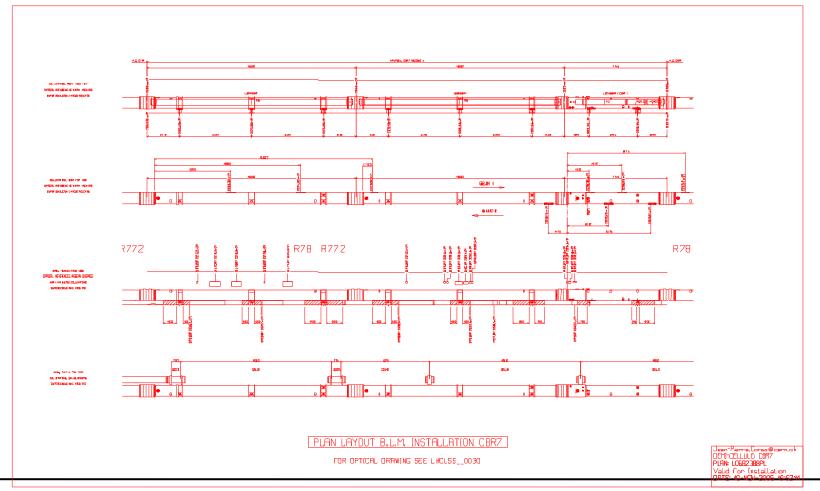
Beam 1 @ collision Particle losses in IR7, 1=12min

- DS IR7: additional monitors in cells 9, 10 & 11
- arc region: cell 13 & 19 left

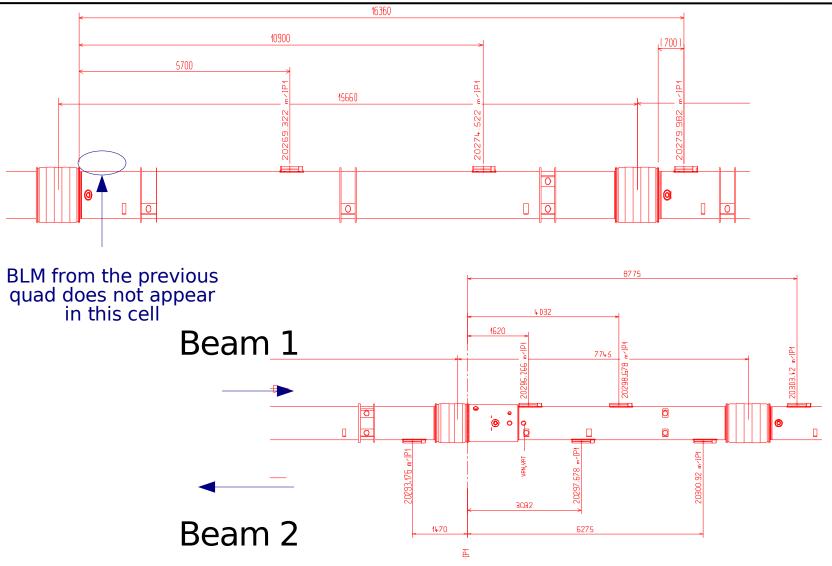
#### **Proposed installation**

Please have a look to the integration web site :

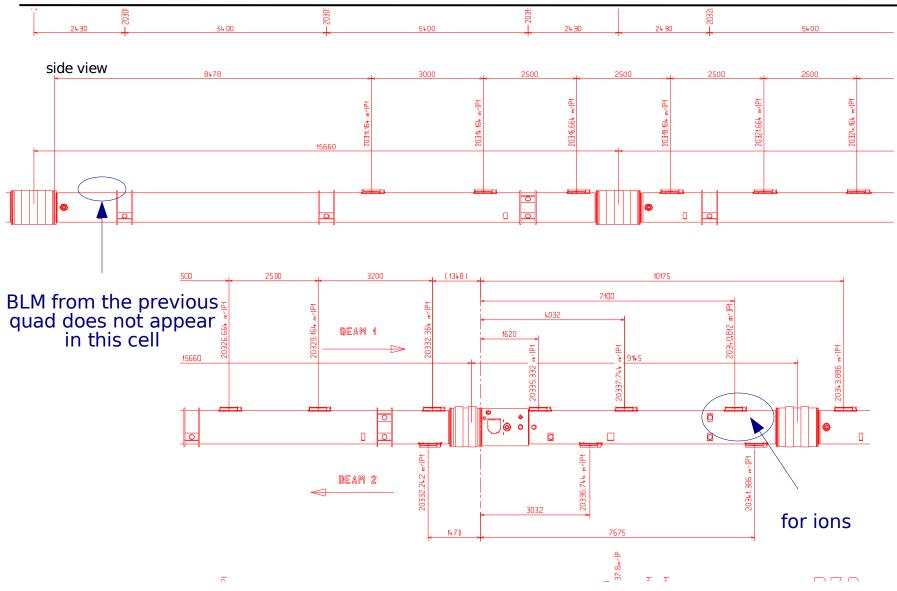
https://lhc-div-miwg.web.cern.ch/lhc-div-miwg/Plans\_BLM/S78/Table\_S78.ht

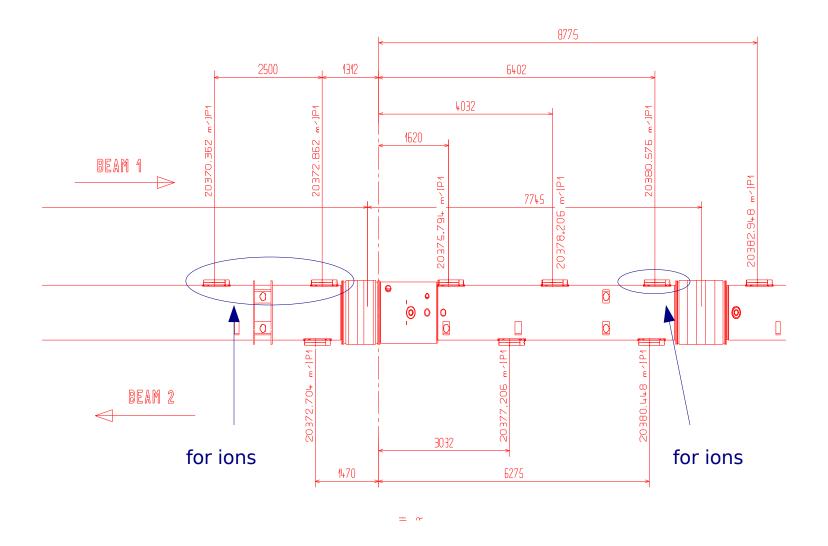


# C8.R7 (top view)



#### C9.R7

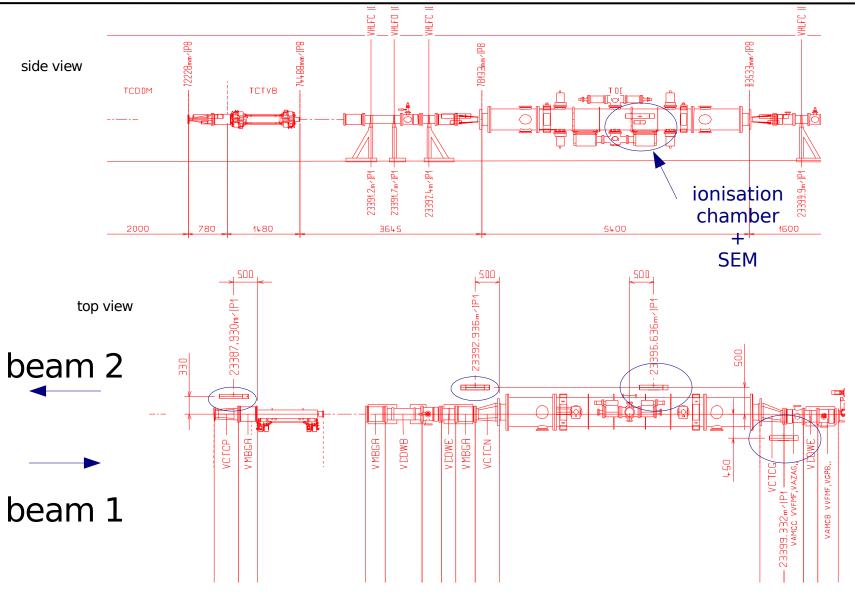




#### C11.R7



#### 3. LSS 8 : example of TDI+TCT



- need approval of the drawings : installation of DS started last week!
- need the thresholds for the so-called "ions BLMs"
- need more inputs (beta functions, loss maps,...) to optimize the integration on the stand-alone quadrupole vs. the standard positions (center of the total length of the main cold masses)