

Beam loss monitors in the collimation

- To phases of collimator operation:
 1. single collimator adjustment (losses occur only at one collimator)
 2. multi collimator loss observations (losses occur at more than one collimator)

TO

1. Use of ionisation chambers
 1. Ionisation chamber dimensions: diameter = 90 mm, length = 600 mm
 2. Distance to the beam max about 350 mm.
 3. Distance to collimator (back surface) about 300 mm
2. Use of secondary emission monitors (SEM)
 1. SEM dimensions: diameter = 90 mm length = 225 mm
 2. Distance to the beam max about 100 mm
 3. Distance to collimator (back surface) about 300 mm