

## **Summary of aperture information**

(S. Redaelli, LOC meeting, 22/02/2005)

- Remarks: 1) Loss pattern studies based on SixTrack not onMADX.  
Aperture information collected using MADX  
as a framework (interface with TS-IC) but  
*NOT targeted to MADX users!*
- 2) Information as of summer 2004.  
All scripts discussed below provided to the  
people interested in 08/2004.  
Still waiting for aperture definition for  
*vacuum chambers.*

## **Available information**

- Beam screens* : Provided by the database!  
Markers at the beginning and end of each BS  
-> Script to assign the aperture to all  
elements within BS.S and BS.E
- Warm elements* : Assigned with a script that starts from the  
various type of vacuum chambers.  
Vacuum chamber location (markers) not yet  
in the database!  
(Samy not available since last week...)
- Detector regions* : Done by hand - not yet included in database  
(should be included when VC's will be available)
- BPM* : Automatic script to assign correct aperture  
and length to the BPM's based on the drawing.  
Not in the database.
- Collimators* : Taken from SixTrack
- Drifts* : Additional markers added (standard 40mm apert)
- Transitions* : Linear interpolation, mostly done in the  
separate program.
- Remarks:* : Some bugs in database (BS length, BPM positions)  
promised for next optics release.