

Collimation, materials, failure modes - II

J.B. Jeanneret, CERN

Coll. WG, June 13, 2003

`/Text/LHC/2003/coll_may/dpcoll.tex`

δ_p collimation - I

- δ_p jaws are all H or with little skew
At injection, even with $n_1 = 6/7 \Rightarrow$ out of MKI failure
- **At 7 TeV, with $n_1 \geq 11 \Rightarrow$ out of MKD failure**
- At injection, MKD failure shall be OK for AI
(ATB check needed)
- **With AI, regular operation must be OK**
(remains to check which τ_{long} is granted)

δ_p collimation - II

- Seriously consider Al (waiting better days for Be)
- Marginal contribution to impedance
 \Rightarrow allows smaller n_1^{beta}
- But this assumes a decent control of amplitude excursions in the transfer lines
- It would be rewarding at moderate price to have a 'phase tunnel' 0,45,90,135 deg.in the TL's (some might be 1m-long)