Collimation, materials, failure modes - II

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/Text/LHC/2003/coll_may/dpcoll.tex
$\delta_p$ collimation - I

- $\delta_p$ 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 Al
  (ATB check needed)

- With Al, regular operation must be OK
  (remains to check which $\tau_{\text{long}}$ is granted)
\[ \delta_p \text{ collimation - II} \]

- Seriously consider Al (waiting better days for Be)
- Marginal contribution to impedance
  \[ \Rightarrow \text{ allows smaller } n_1^{\beta} \]
- 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)