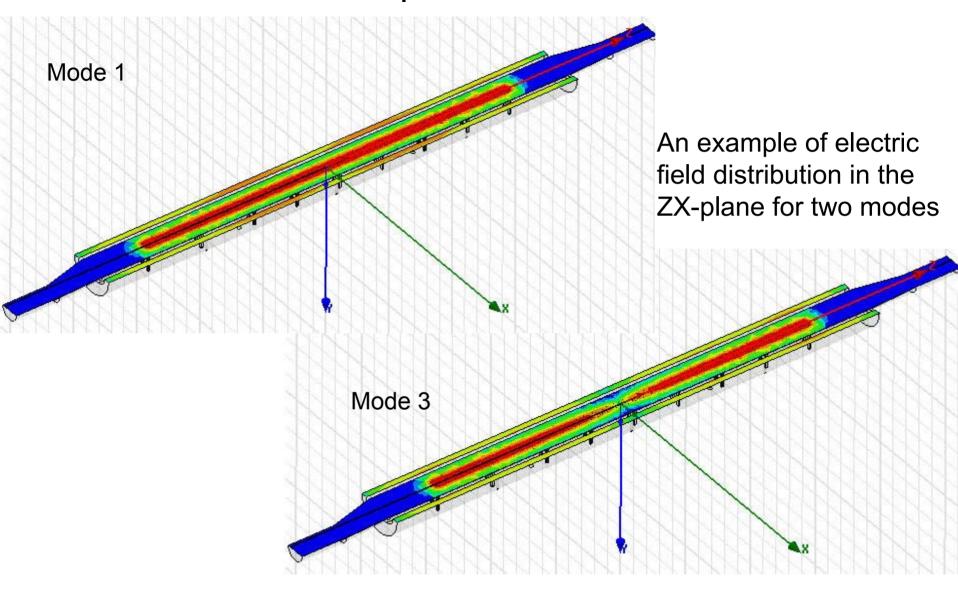
TDI modification

A. Grudiev RLC meeting 3.02.2006

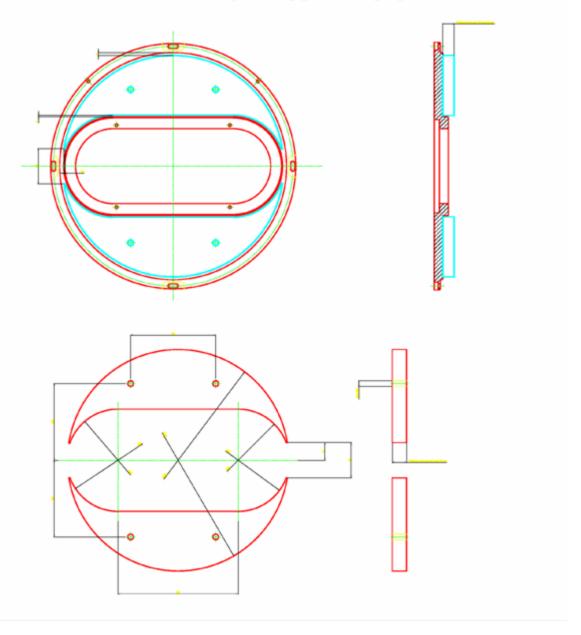
Dipole modes



Conclusions and recommendations (cont.)

- The gap is 8 mm according to the last table provided by Collimation Working Group
- In this case, and given the uncertainty in impedance of higher frequency modes additional damping is necessary to keep trapped mode impedance below Landau damping limit
- BB impedance scaled from 40 k Ω /m for 16 mm gap to ~320 k Ω /m for 8 mm becomes significant part (16%) of LHC BB transverse impedance budget (2000 k Ω /m)
- Tapering the jaw ends is necessary to reduce BB impedance

Ferrite 4S60 for damping trapped modes



Tapering jaws

