H & V TMCI INTENSITY THRESHOLDS IN A FLAT CHAMBER COMPARED TO A ROUND ONE

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 Study done in the case of the SPS (same parameters as for the other simulations on the time evolution)

$$\sigma_t = 0.7 \text{ ns}$$
  $R_y = 20 \text{ M}\Omega/\text{m}$   $Q = 1$   $f_r = 1 \text{ GHz}$ 

Elias Métral, RLC meeting, 20/01/2006



 $\Rightarrow$  The intensity threshold is increased in a flat chamber by

- The vertical Yokoya factor in the V-plane

- Slightly more than the horizontal Yokoya factor in the H-plane (it is not suppressed and the effect of the detuning impedance, if any, seems small and in the plane of higher threshold)

⇒ This is the starting point for our study on the effect of linear coupling

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