First results on the simulation of trapped modes in TDI

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General layout
HFSS model

Top view

Side view
Transition region trapped modes

\( q = 16 \text{nC}, \ t_b = 25 \text{ns} \)

\[ f = 0.767 \text{ GHz} \]
\[ Q = 59700 \]
\[ r/Q = 1.04 \text{ LinacOhm} \]
\[ K_\delta = 1.25 \text{ V/nC} \]
\[ P_{\text{loss}} = (q/t_b)^2 e^{-(\omega \sigma_z/c)^2 r/Q} Q = 5kW \]

\[ f = 0.769 \text{ GHz} \]
\[ Q = 58800 \]
\[ r/Q = 0.77 \text{ LinacOhm} \]
\[ K_\delta = 0.93 \text{ V/nC} \]
\[ P_{\text{loss}} = (q/t_b)^2 e^{-(\omega \sigma_z/c)^2 r/Q} Q = 3.7kW \]