TRAPPED MODES FOR THE CMS EXPERIMENTAL CHAMBER USING ABCI

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REMINDER ON THE DESIGNS

Old design without tapering (1)

Old design with 2m tapering (2)

New design with taperings (3)

Until the TAS
REAL PART OF THE LONGITUDINAL IMPEDANCE

(1)

(2)

(3)
CONCLUSION

- The resonance frequency of the 1st mode is shifted as expected from something between 450 and 500 MHz to ~ 750 MHz (when the larger beam pipe radius reduces from 25 cm to 16 cm)
- However, we do not have the values of the shunt resistance and Q-values of the resonances...