

FOLLOW-UP OF THE GSI WORKSHOP HELD ON 30-31/03/06: NEW GSI RESULT FOR THE LHC COLLIMATOR

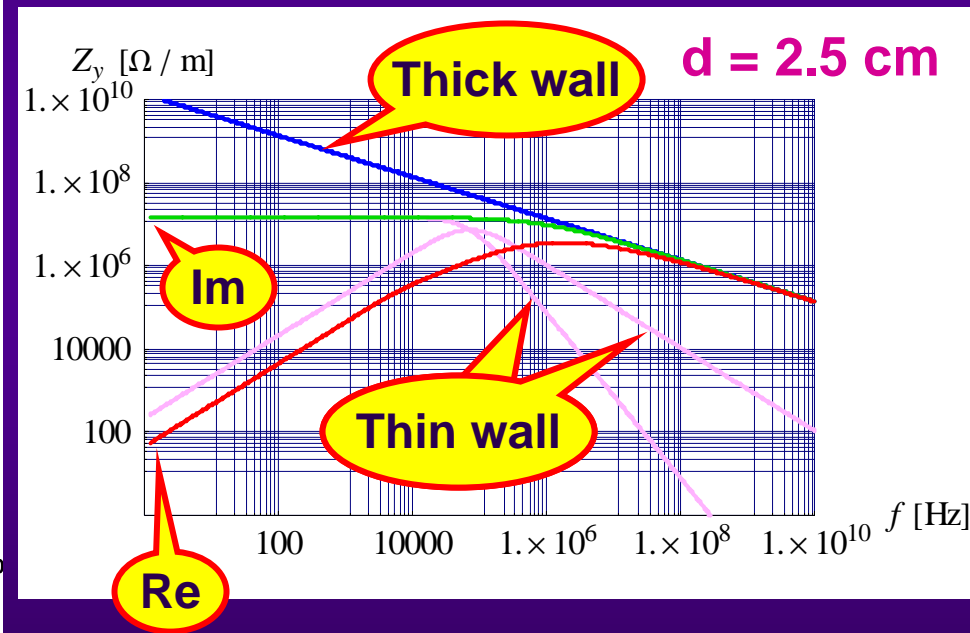
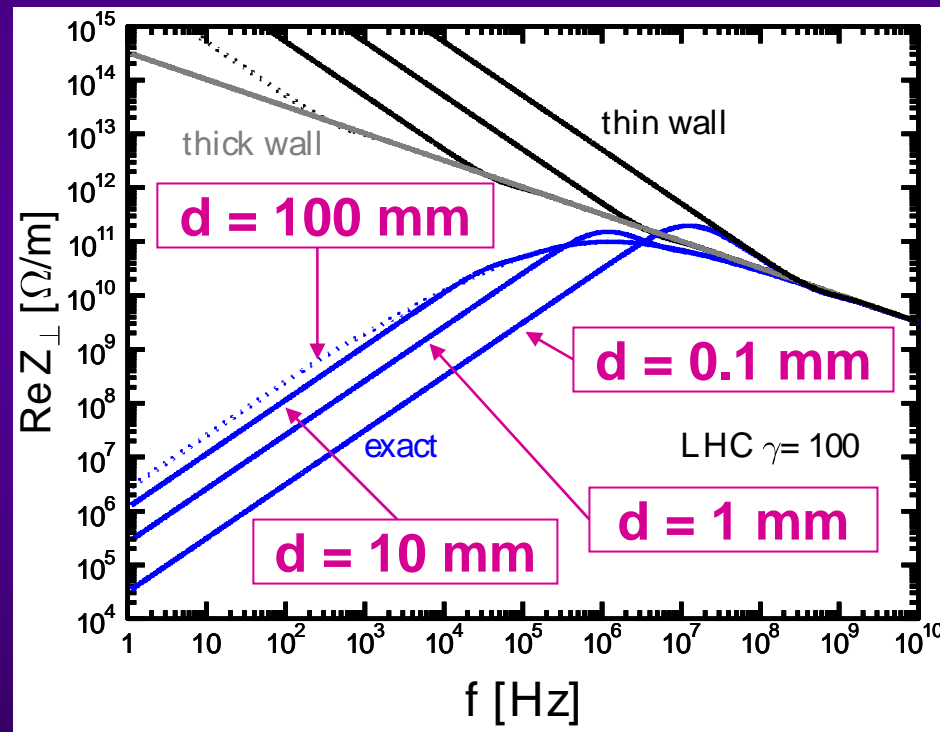
Elias Métral

- ◆ **New result from Rainer Hasse for a LHC collimator sent to me on 25/08/06**

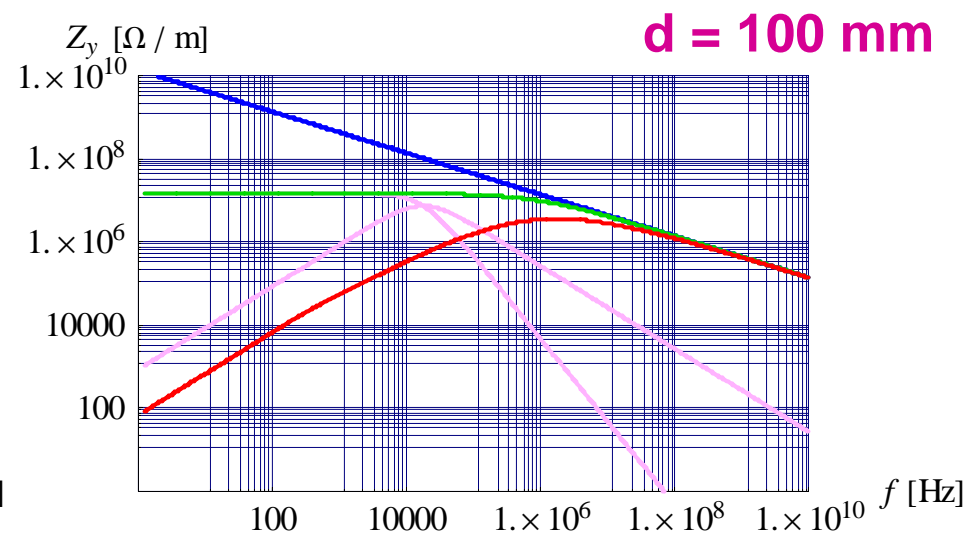
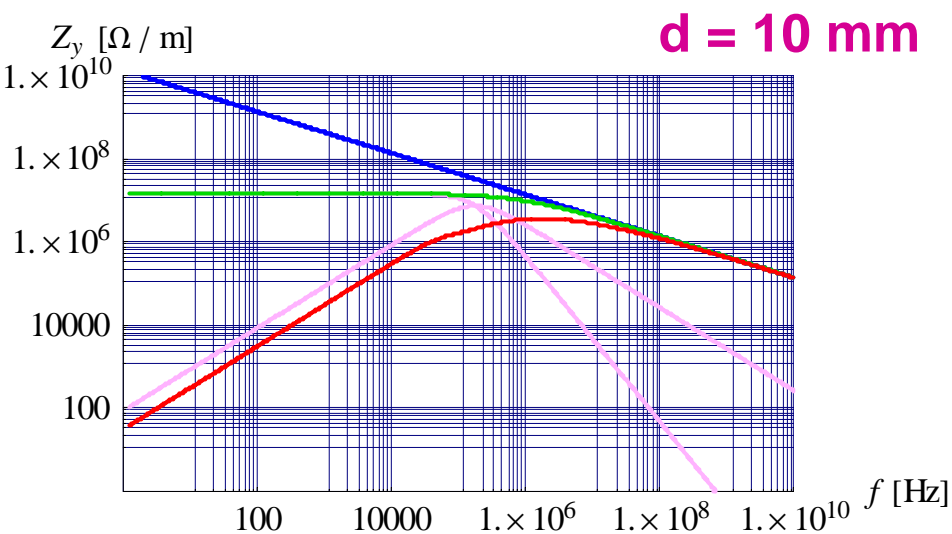
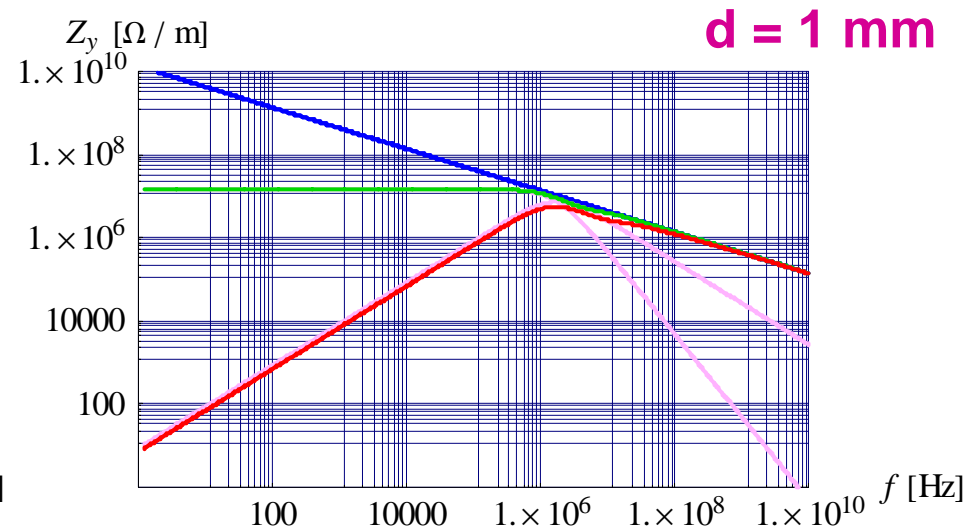
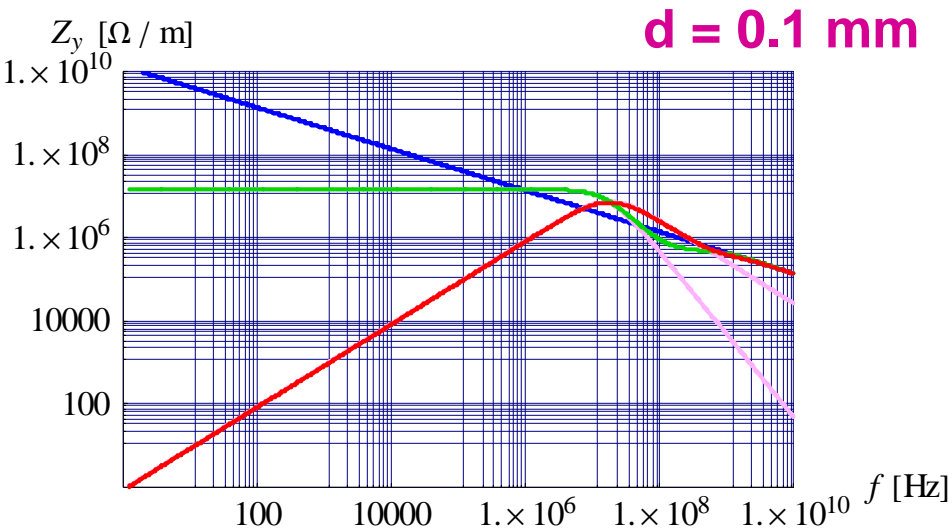
Transverse resistive-wall impedance for a LHC collimator

GSI RESULT (25/08/06)

RESULT using the new (extended) Zotter's formula

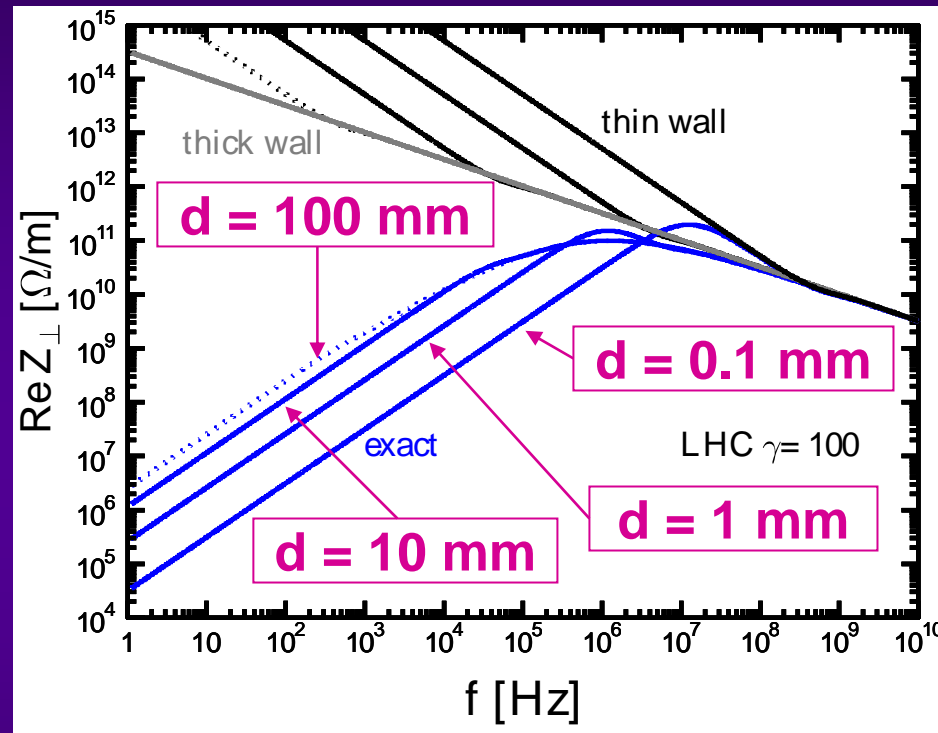


Transverse resistive-wall impedance for a LHC collimator: Scan in the wall thickness with Zotter's extended formula (1/2)

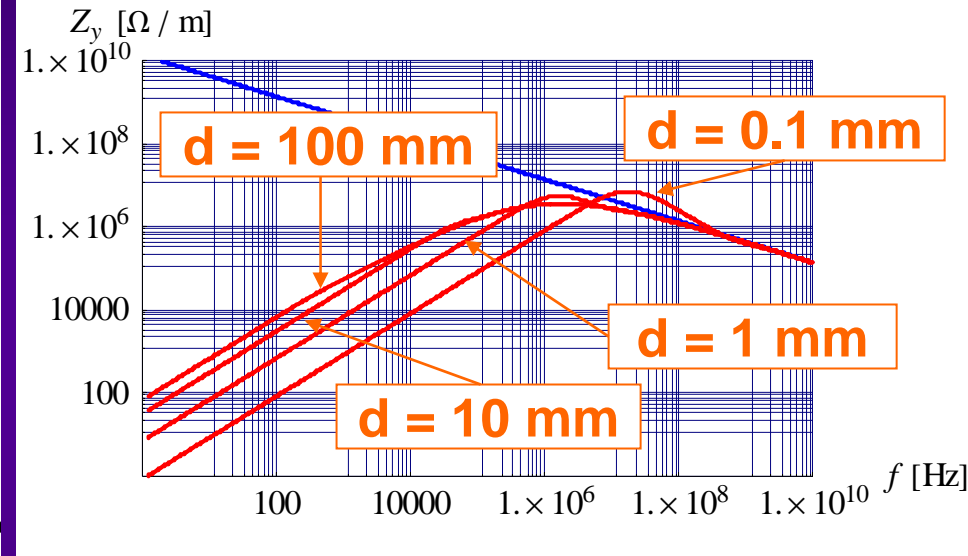


Transverse resistive-wall impedance for a LHC collimator: Scan in the wall thickness with Zotter's extended formula (2/2)

GSI RESULT (25/08/06)



RESULT using the new (extended) Zotter's formula



⇒ Very similar plots, except that the real part of the transverse impedance from GSI is ~ 4 orders of magnitude higher than computed from Zotter's formalism!