FOLLOW-UP OF THE GSI WORKSHOP HELD ON 30-31/03/06: COMPARISON WITH GSI RESULTS ON THE CASE OF SIS100

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SIS100 data sent to me by RH on 06/07/06 and 08/08/06

- Cylinder of radius = 4 cm
- Beam radius = 2 cm
- Wall thickness = 0.2 mm ⇒ Will be scanned in fact
- Circumference = 1080 m
- Conductivity =  $10^6 \Omega^{-1} m^{-1}$
- **Gamma = 1.12 \Rightarrow Beta = 0.45**
- Computation done at half the revolution frequency = 62.5 kHz

With vacuum outside

## **Transverse resistive-wall impedance for SIS100**

## **GSI RESULT (EPAC2006)**

## RESULT using the new (extended) Zotter's formula

