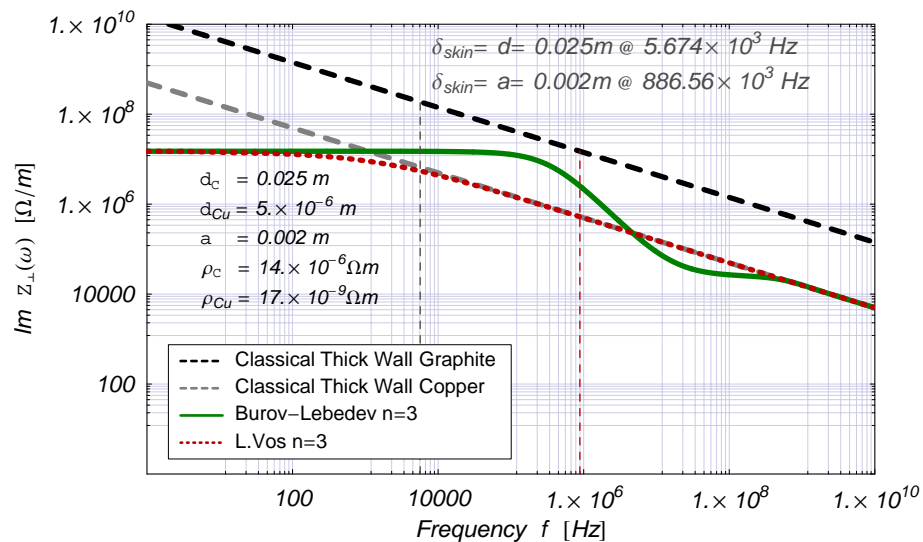
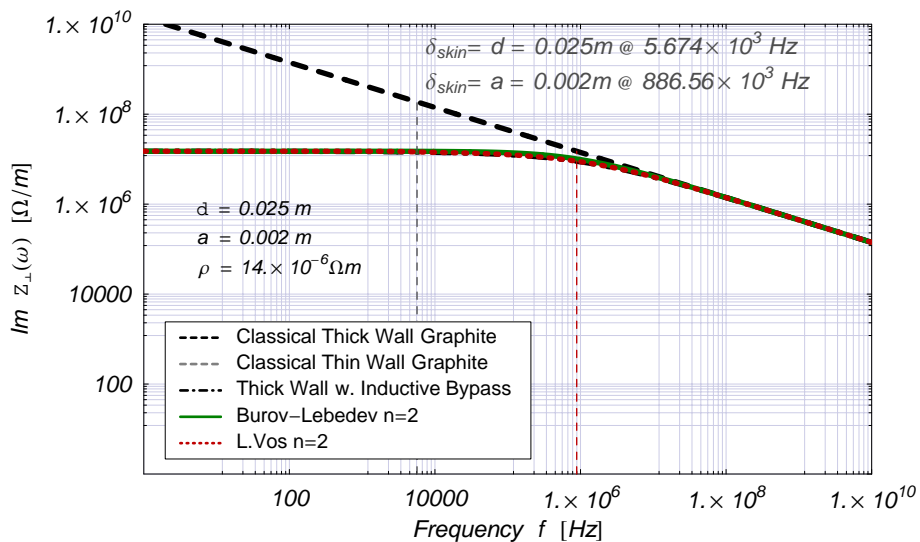
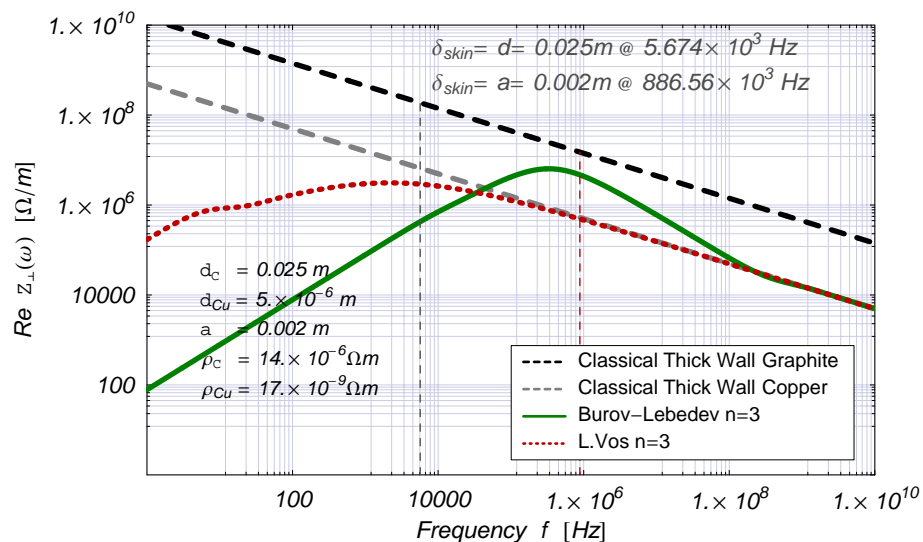
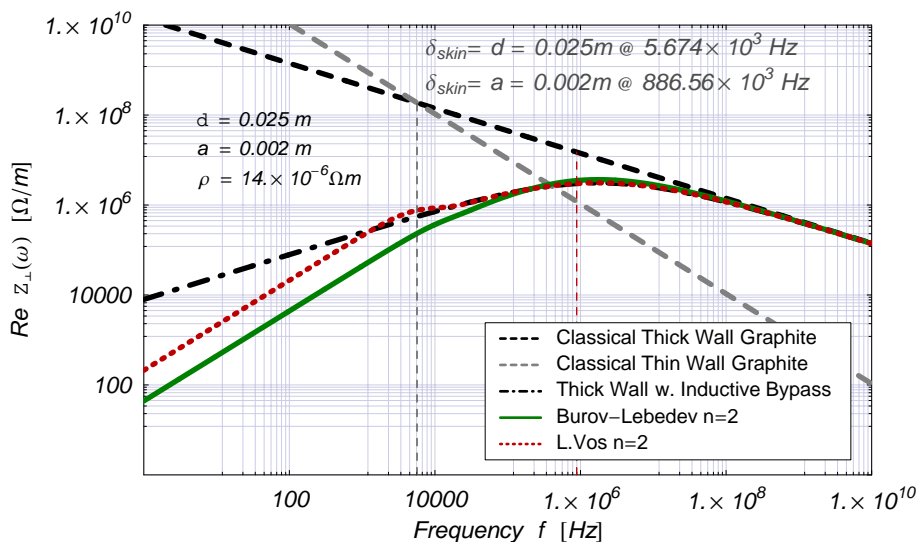


LHC COLLIMATOR IMPEDANCE :
COMPARISON VOS / BUROV-LEBEDEV (BL)
WITHOUT AND WITH COATING
[V6.5 LAYOUT, PHASE 1 (IR7 + IR3)]

E. Métral and A. Koschik

Comparison between Vos and BL (single collimator, $a = 2$ mm)

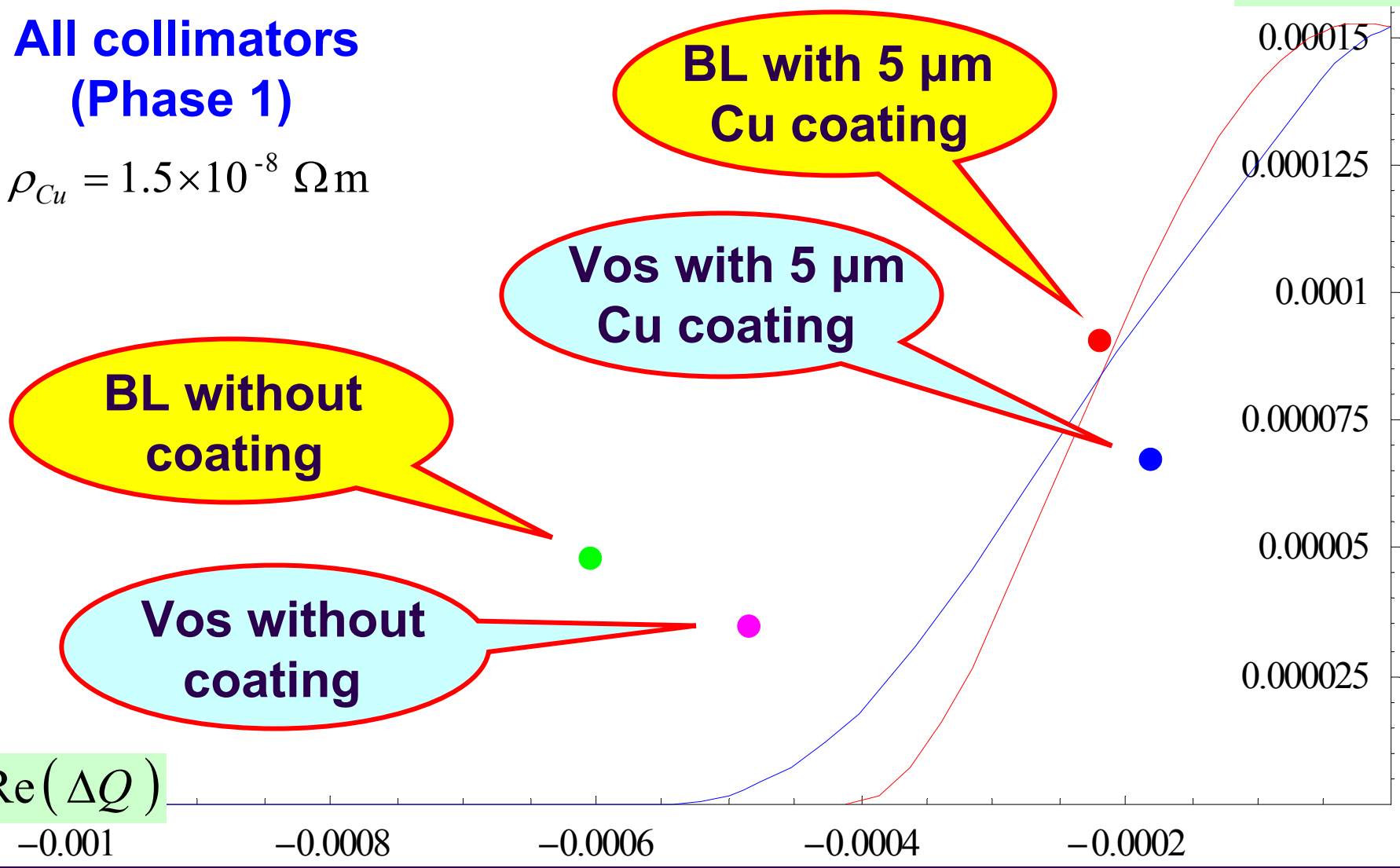


Stability diagram (maximum octupoles) and collective tune shift for the most unstable coupled-bunch mode and head-tail mode 0 (1.15e11 p/b at 7 TeV)

All collimators (Phase 1)

$$\rho_{Cu} = 1.5 \times 10^{-8} \Omega m$$

$-\text{Im}(\Delta Q)$



$\text{Re}(\Delta Q)$