sphere-tipped cone, $r = 20.0$ nm, $h = 47.5$ nm, $L = 4000.0$ nm, $\theta = 15.0$ deg, $N_r = 39$

$\alpha = 0.00e+00$, cn $= 6.90e+06$, $C_0 = 203.4064$ aF, $C_1 = -6.14e-11$ F/m, $C_2 = 6.04e-04$ F/m^2