

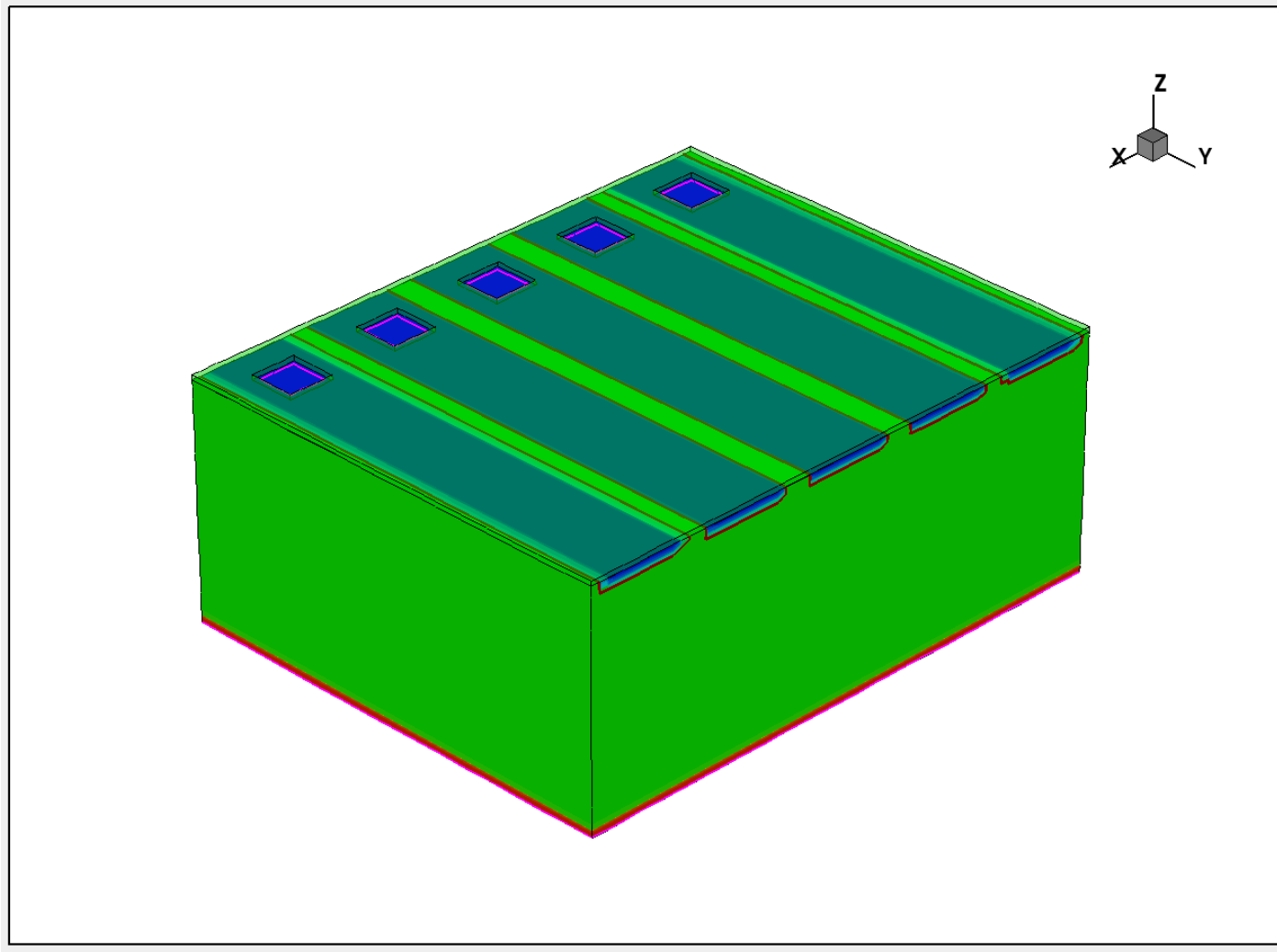
Strip detector with active edge: charge collection simulations

J. Segal, July 2013

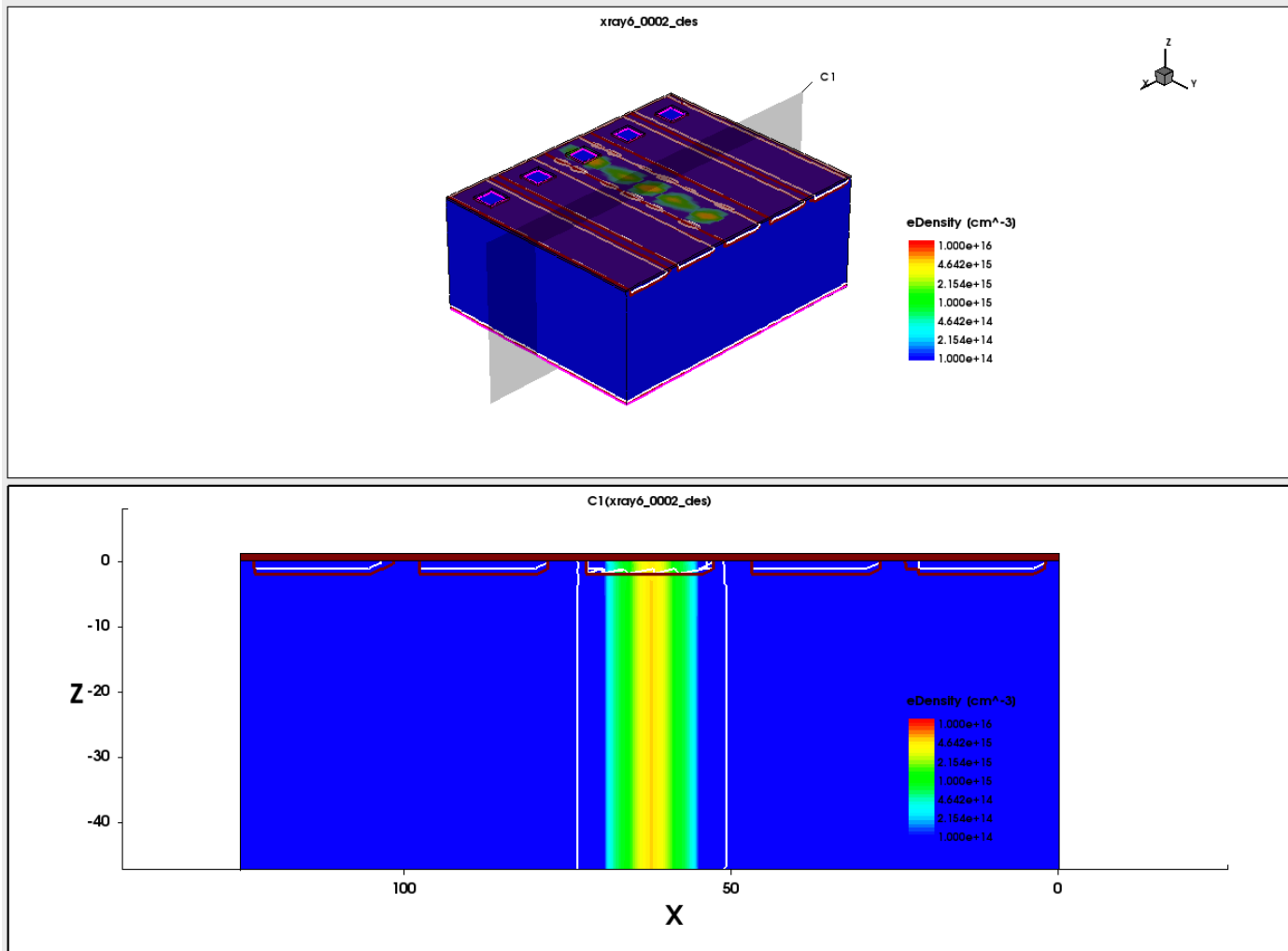
Structure: n-type substrate, n-type backside, p-type strips

Dimensions: 50 μm or 75 μm deep, 25 μm strip pitch, 100 μm strip length

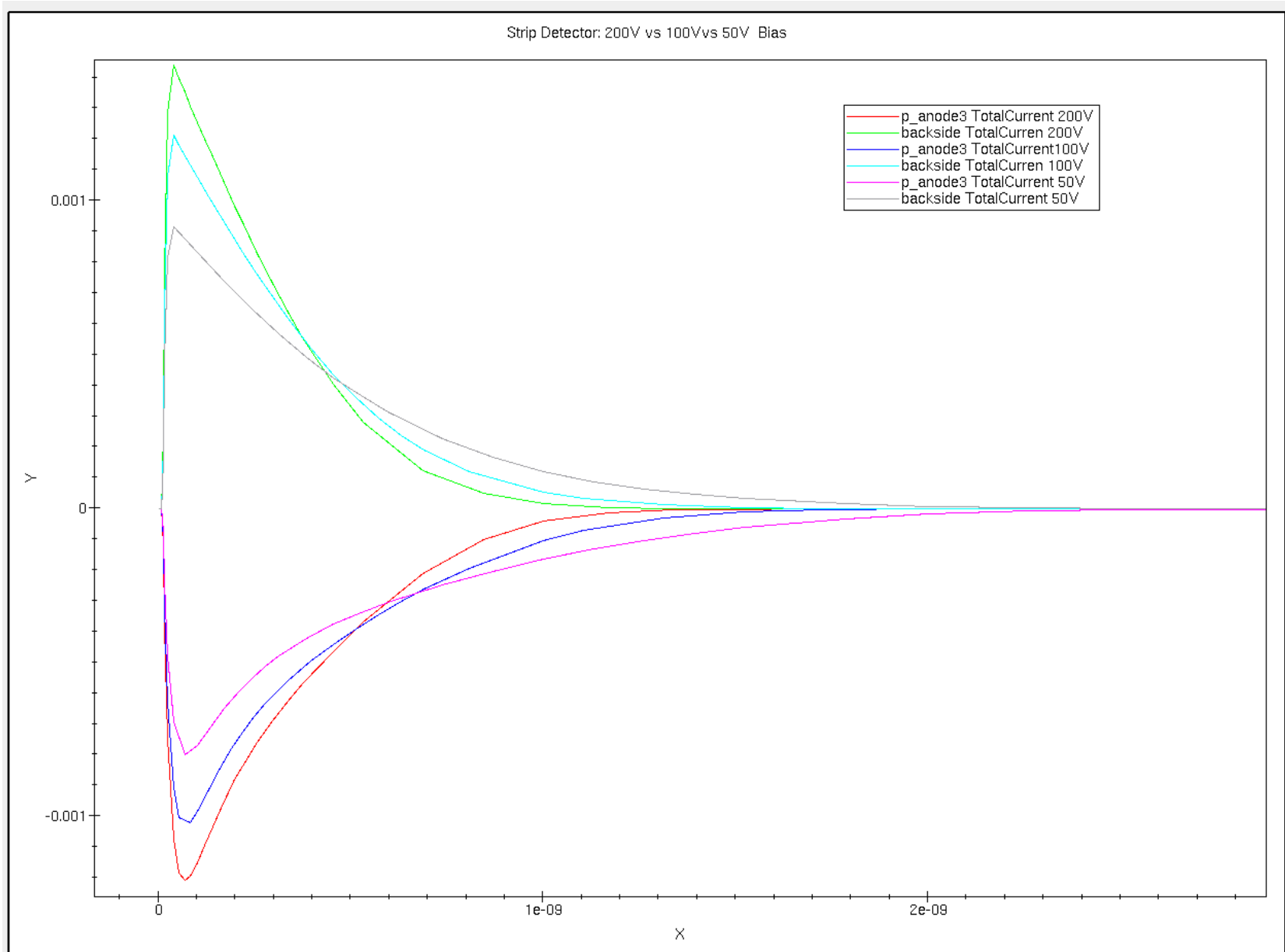
Other physical parameters: 100ohms contact resistance, surface charge $5\text{e}10/\text{cm}^2$



Charge Deposition in Simulation: Total 1000 10KeV photon equivalent



Contact Current vs. Time for 50um Thick Strip Detector



Contact Current vs. Time for 75um Thick Detector

75um thick detector

