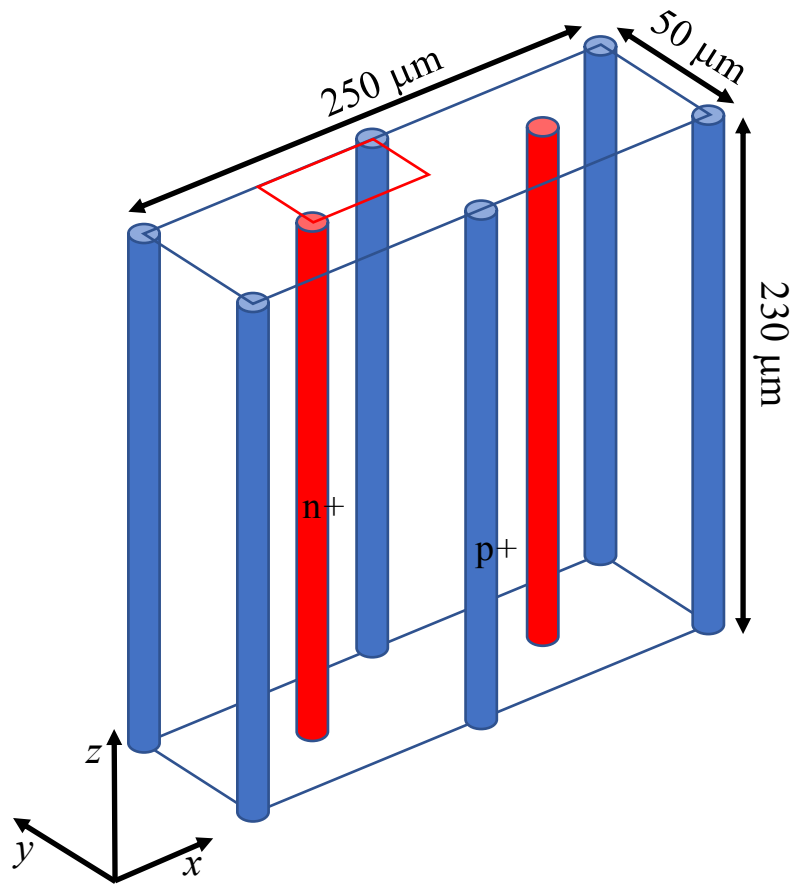


IBL 3D sensor – summary of the geometry setup and doping values



n+ and p+ columns radius = 5.5 μm

n+ column doping = $5 \times 10^{19} \text{ cm}^{-3}$ (phosphorus)

p+ column doping = $5 \times 10^{19} \text{ cm}^{-3}$ (boron)

bulk p-doping = $8 \times 10^{11} \text{ cm}^{-3}$ (boron)

red rectangle corresponds to the xy section of the reduced box used in TCAD simulations