424 circles in a circular quadrant
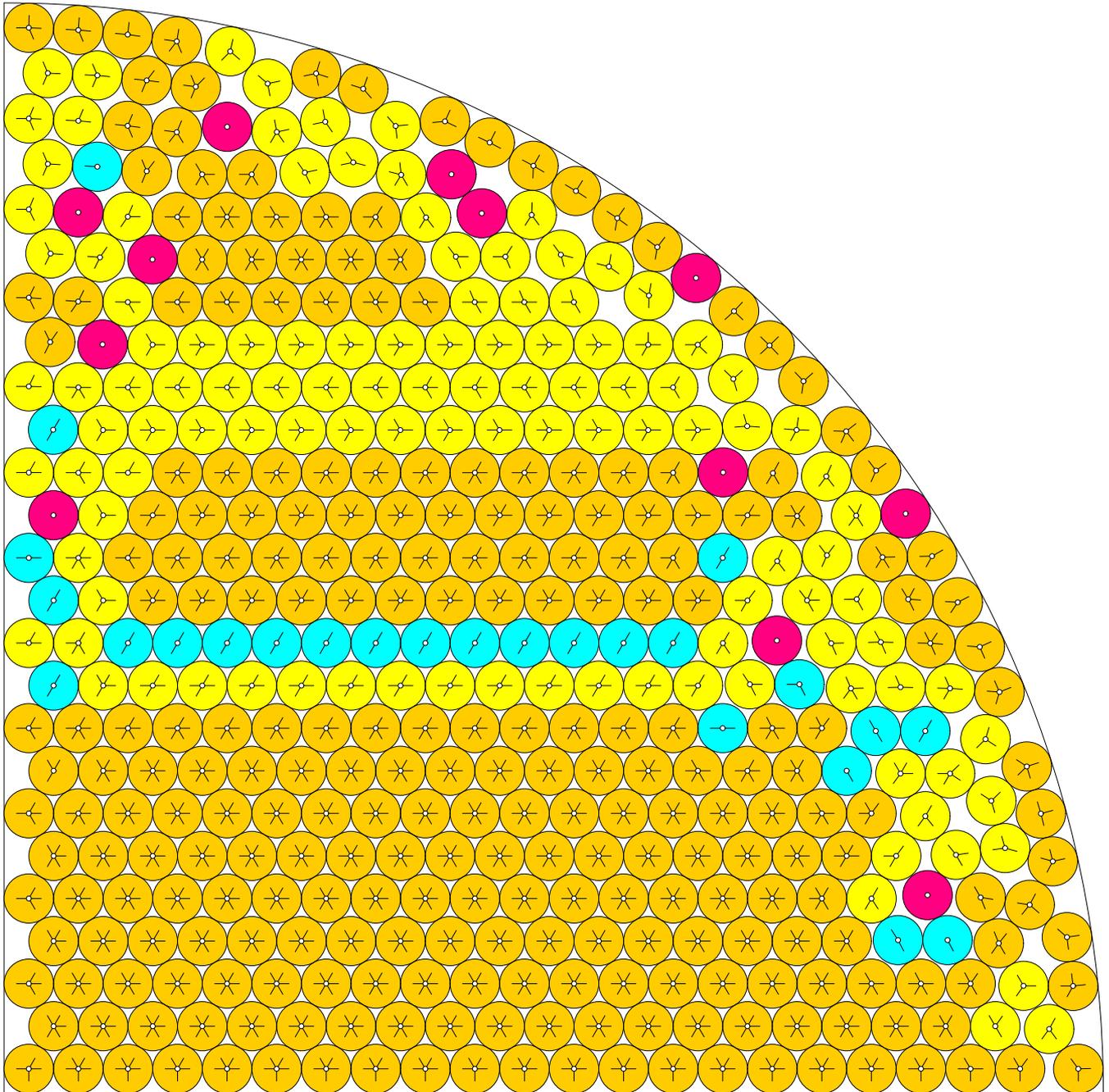
radius =   0.022542855162   density = 0.861873820741
ratio = 44.359953201805   contacts = 949