590 circles in a circular quadrant
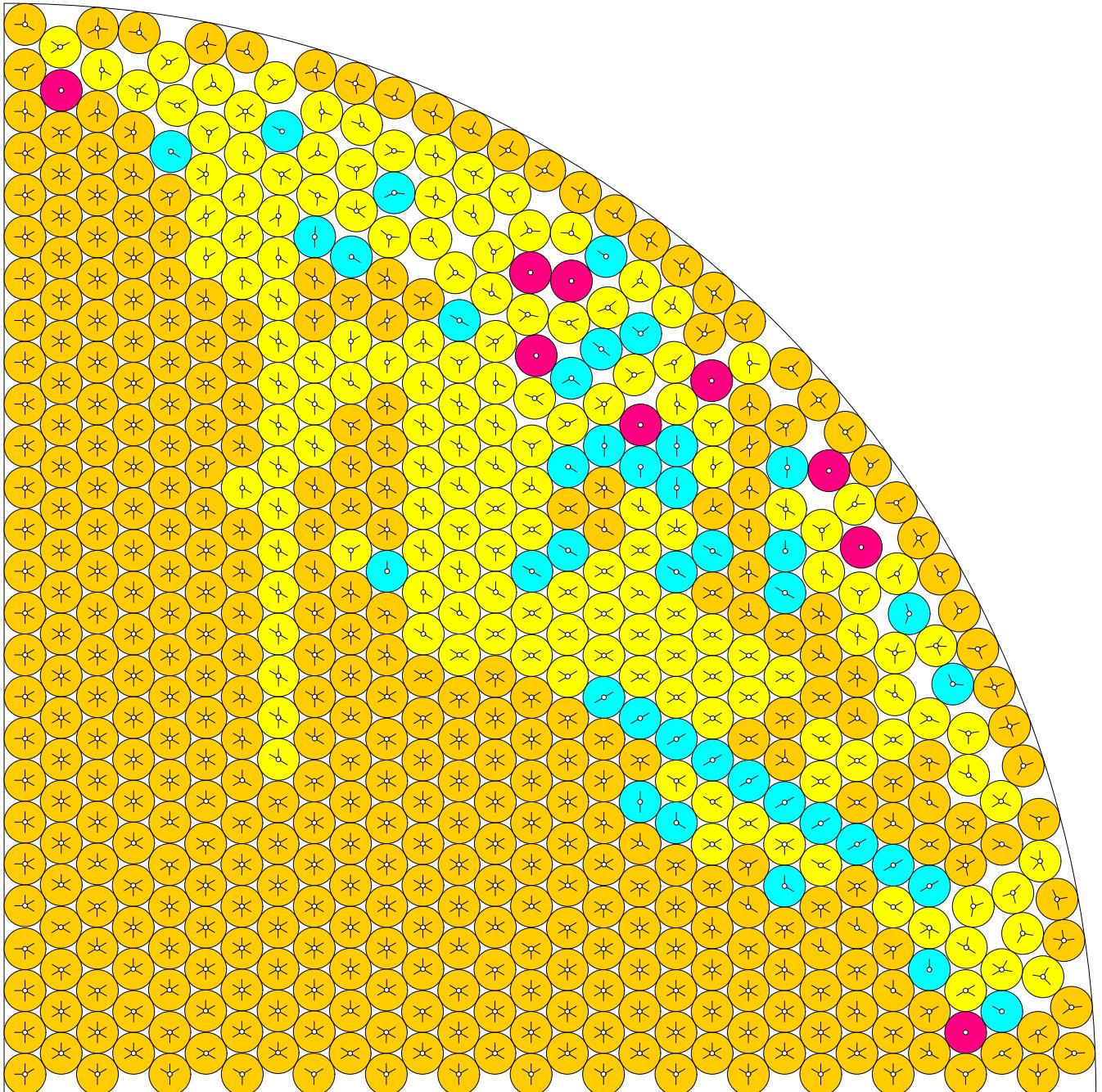
radius   =   0.019144376088   density = 0.864956840522

ratio   = 52.234661259362   contacts = 1316