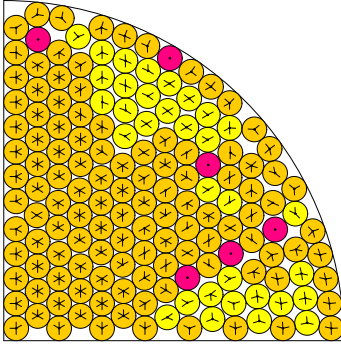


N = 157

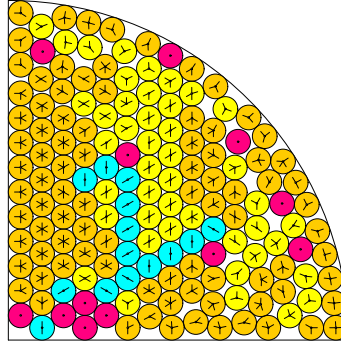
157 circles in a circular quadrant



radius = 0.036441609677 density = 0.833978295144
 ratio = 27.441158853023 contacts = 341

N = 158

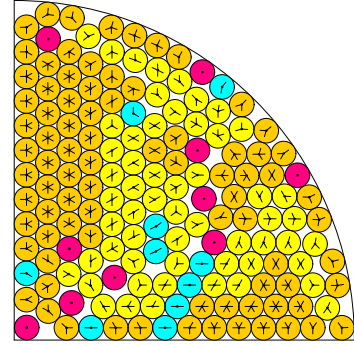
158 circles in a circular quadrant



radius = 0.036326581379 density = 0.834000165269
 ratio = 27.528051417060 contacts = 296

N = 159

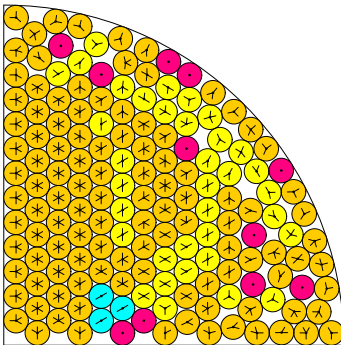
159 circles in a circular quadrant



radius = 0.036214595397 density = 0.834112040954
 ratio = 27.613176097886 contacts = 306

N = 160

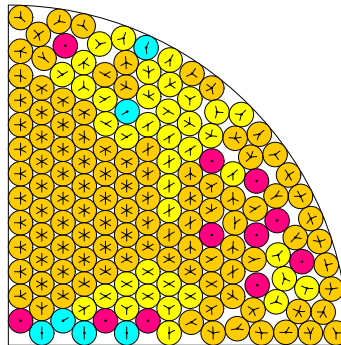
160 circles in a circular quadrant



radius = 0.036126897203 density = 0.835297728982
 ratio = 27.680207197813 contacts = 332

N = 161

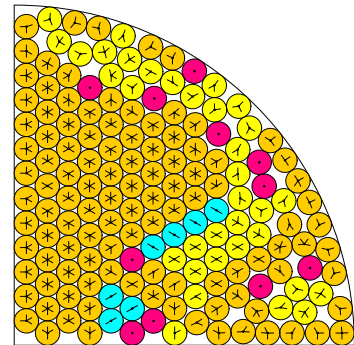
161 circles in a circular quadrant



radius = 0.036013842962 density = 0.835265993867
 ratio = 27.747100583659 contacts = 333

N = 162

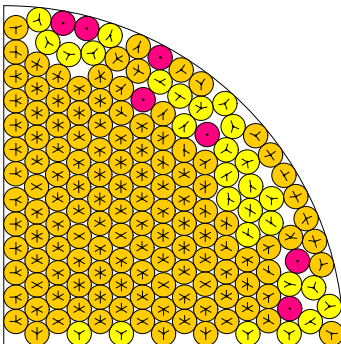
162 circles in a circular quadrant



radius = 0.035902660750 density = 0.835272679708
 ratio = 27.803088854962 contacts = 337

N = 163

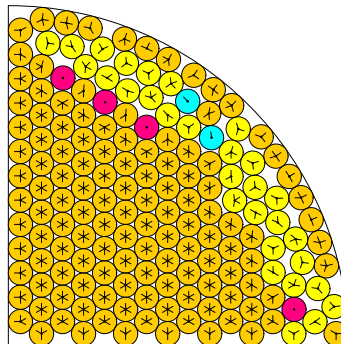
163 circles in a circular quadrant



radius = 0.035795313626 density = 0.838715660223
 ratio = 27.93802808306 contacts = 366

N = 164

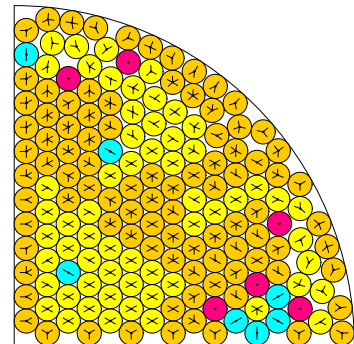
164 circles in a circular quadrant



radius = 0.035690163736 density = 0.835624798600
 ratio = 28.018924412848 contacts = 400

N = 165

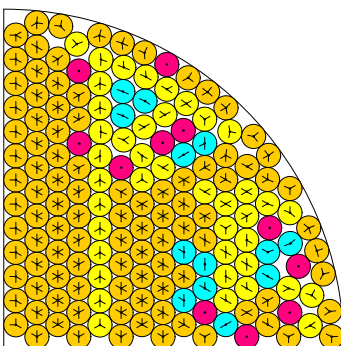
165 circles in a circular quadrant



radius = 0.035614818471 density = 0.837724008507
 ratio = 28.078200112696 contacts = 315

N = 166

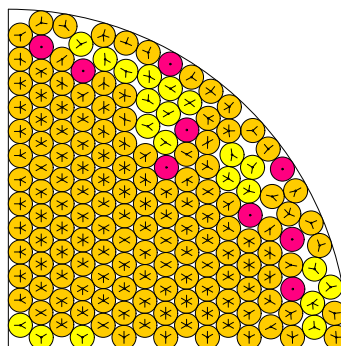
166 circles in a circular quadrant



radius = 0.035540483878 density = 0.838715660223
 ratio = 28.136926987859 contacts = 328

N = 167

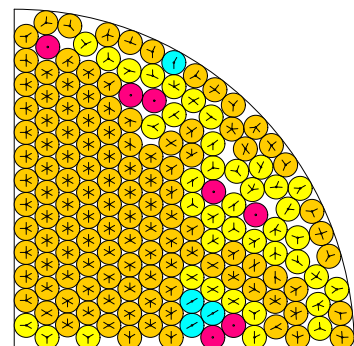
167 circles in a circular quadrant



radius = 0.035396031441 density = 0.835923199919
 ratio = 28.251754768860 contacts = 369

N = 168

168 circles in a circular quadrant



radius = 0.035286286809 density = 0.836724008507
 ratio = 28.339621150871 contacts = 372