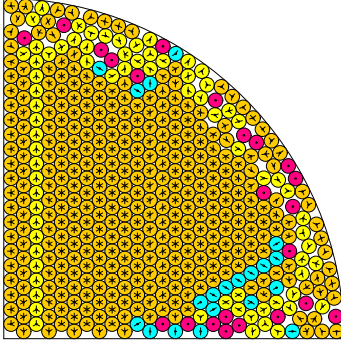


N = 469

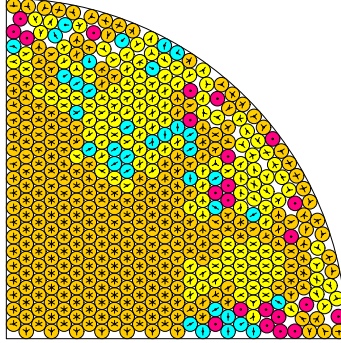
469 circles in a circular quadrant



radius = 0.021442484669 density = 0.862547559125
ratio = 46.636386381009 contacts = 1094

N = 470

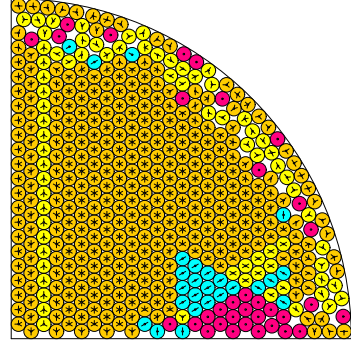
470 circles in a circular quadrant



radius = 0.021412498282 density = 0.861970755467
ratio = 46.701696682455 contacts = 978

N = 471

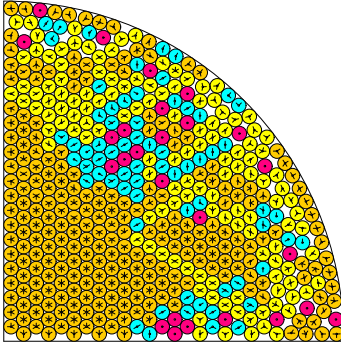
471 circles in a circular quadrant



radius = 0.021400184101 density = 0.862811485080
ratio = 46.728569963836 contacts = 1076

N = 472

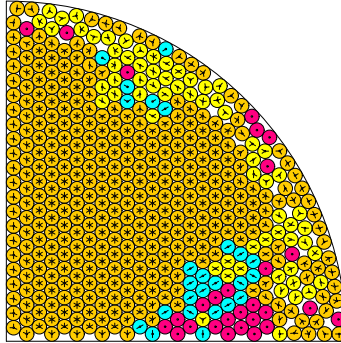
472 circles in a circular quadrant



radius = 0.021383421552 density = 0.863289354180
ratio = 46.765200675847 contacts = 923

N = 473

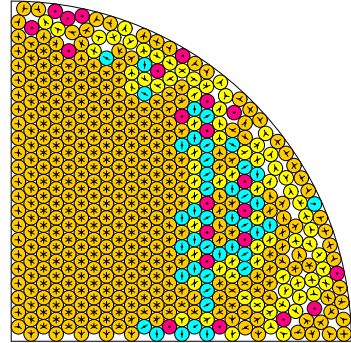
473 circles in a circular quadrant



radius = 0.021355001419 density = 0.862820273987
ratio = 46.827437768174 contacts = 1099

N = 474

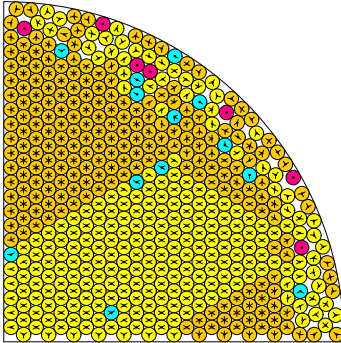
474 circles in a circular quadrant



radius = 0.021326909050 density = 0.862838701221
ratio = 46.876411528948 contacts = 1058

N = 475

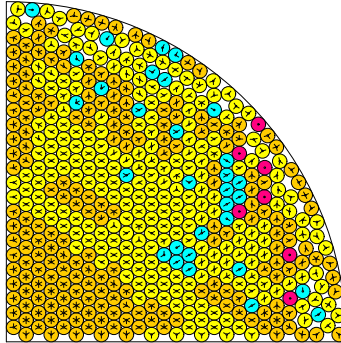
475 circles in a circular quadrant



radius = 0.021252847893 density = 0.862779403867
ratio = 46.927445706359 contacts = 1036

N = 476

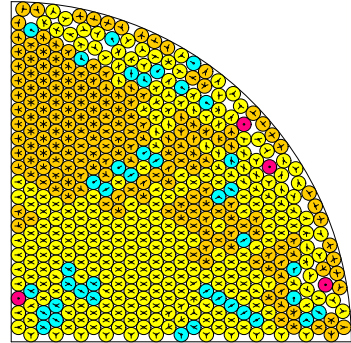
476 circles in a circular quadrant



radius = 0.021283986055 density = 0.863229750777
ratio = 46.983680473350 contacts = 942

N = 477

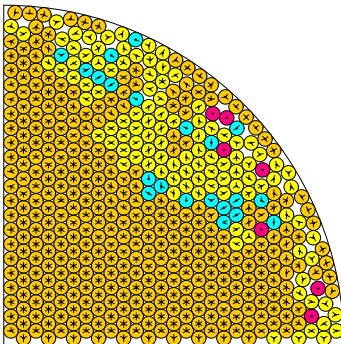
477 circles in a circular quadrant



radius = 0.021202993097 density = 0.862909083985
ratio = 47.022602817914 contacts = 946

N = 478

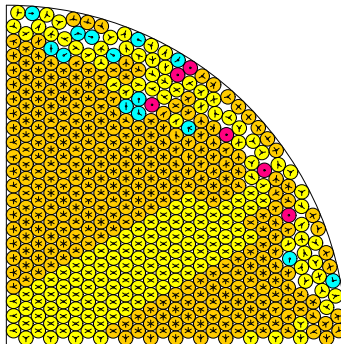
478 circles in a circular quadrant



radius = 0.021252847893 density = 0.863168479264
ratio = 47.052517622612 contacts = 1104

N = 479

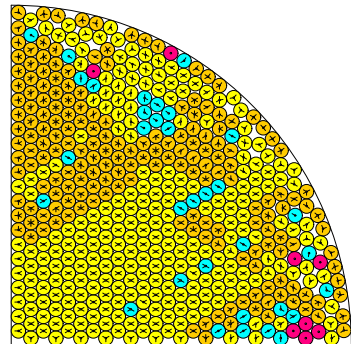
479 circles in a circular quadrant



radius = 0.021225867693 density = 0.863229772027
ratio = 47.112326076920 contacts = 1076

N = 480

480 circles in a circular quadrant



radius = 0.021202993097 density = 0.863168479264
ratio = 47.163152646030 contacts = 943