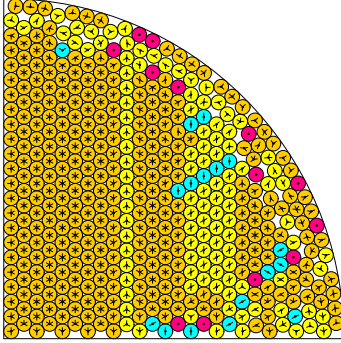


N = 457

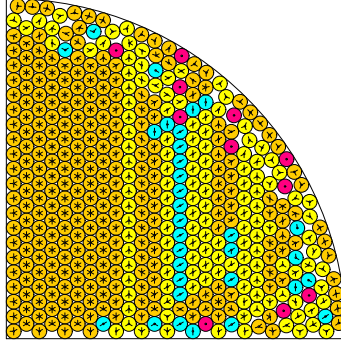
457 circles in a circular quadrant



radius = 0.021736119223 density = 0.863654830550
 ratio = 46.006372607798 contacts = 1066

N = 458

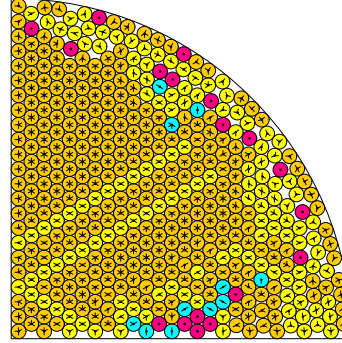
458 circles in a circular quadrant



radius = 0.021721351307 density = 0.8643368931929
 ratio = 46.037651428246 contacts = 1021

N = 459

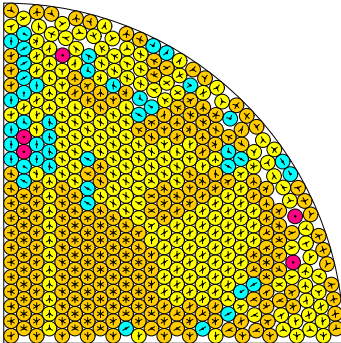
459 circles in a circular quadrant



radius = 0.021679836136 density = 0.862948081386
 ratio = 46.125809888000 contacts = 1013

N = 460

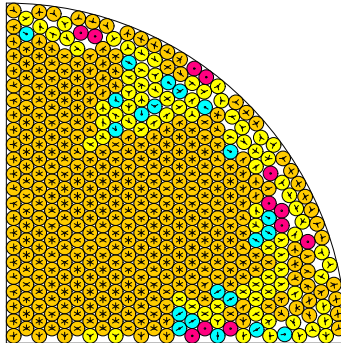
460 circles in a circular quadrant



radius = 0.021655018991 density = 0.862889165064
 ratio = 46.177604909813 contacts = 935

N = 461

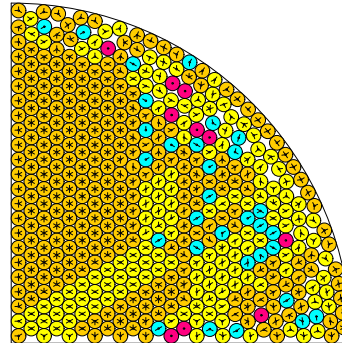
461 circles in a circular quadrant



radius = 0.021640081712 density = 0.863332543719
 ratio = 46.230546397350 contacts = 1046

N = 462

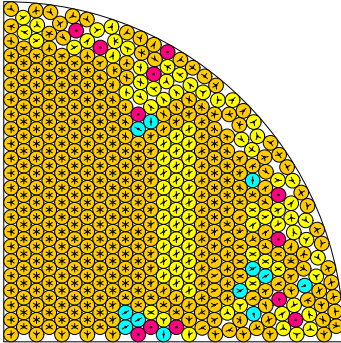
462 circles in a circular quadrant



radius = 0.021601609266 density = 0.862331358295
 ratio = 46.292847337406 contacts = 1003

N = 463

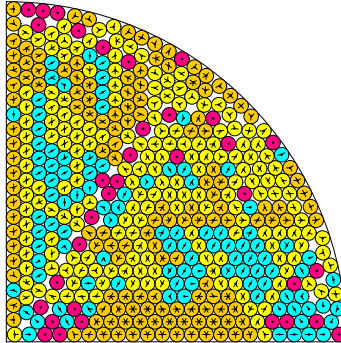
463 circles in a circular quadrant



radius = 0.021571800428 density = 0.861974257794
 ratio = 46.352519267324 contacts = 1090

N = 464

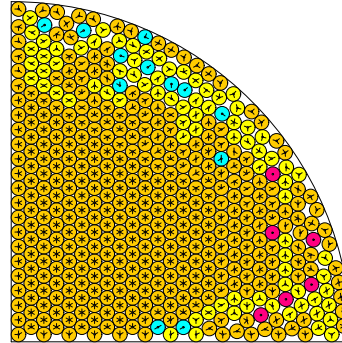
464 circles in a circular quadrant



radius = 0.021544261123 density = 0.861037841007
 ratio = 46.416071317426 contacts = 747

N = 465

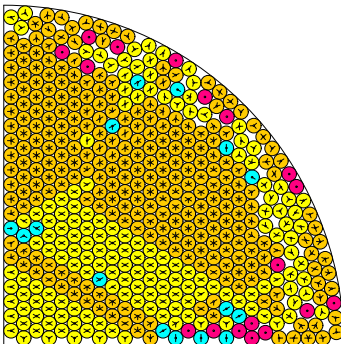
465 circles in a circular quadrant



radius = 0.021511020431 density = 0.86066635930
 ratio = 46.487799276194 contacts = 1110

N = 466

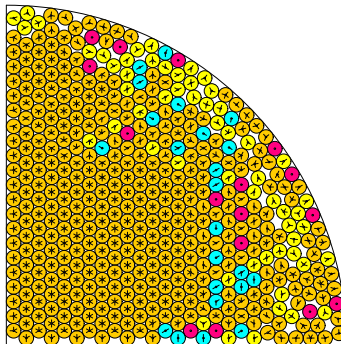
466 circles in a circular quadrant



radius = 0.021491758131 density = 0.860973524339
 ratio = 46.529464639505 contacts = 1015

N = 467

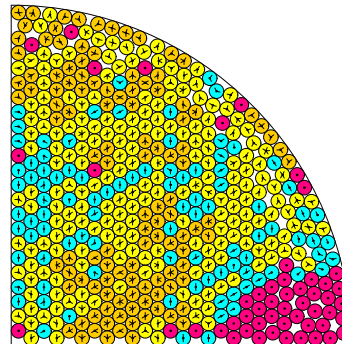
467 circles in a circular quadrant



radius = 0.021469537218 density = 0.861037841007
 ratio = 46.577622508723 contacts = 1071

N = 468

468 circles in a circular quadrant



radius = 0.021447767871 density = 0.861132629708
 ratio = 46.624898498767 contacts = 704