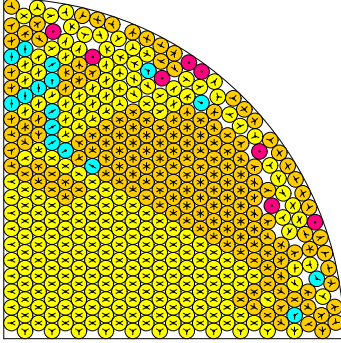


N = 409

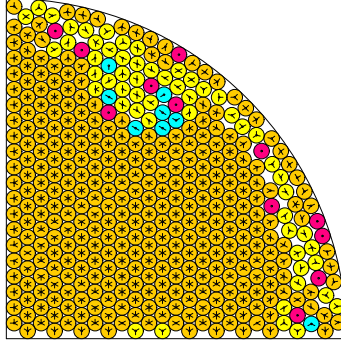
409 circles in a circular quadrant



radius = 0.022921980434 density = 0.859582517989
 ratio = 43.626247865531 contacts = 839

N = 410

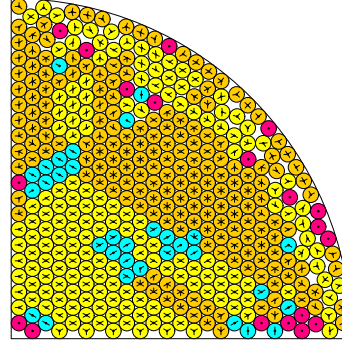
410 circles in a circular quadrant



radius = 0.022901981080 density = 0.860181209298
 ratio = 43.664344866852 contacts = 1002

N = 411

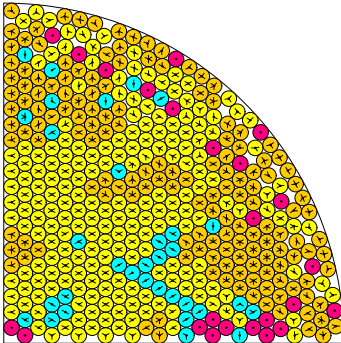
411 circles in a circular quadrant



radius = 0.022879142899 density = 0.860560315591
 ratio = 43.707931036041 contacts = 809

N = 412

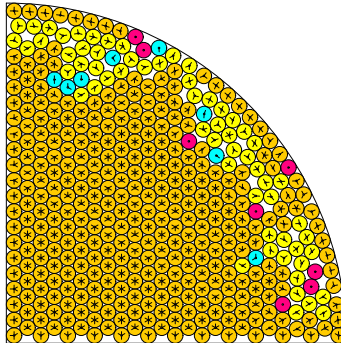
412 circles in a circular quadrant



radius = 0.022839095202 density = 0.85963796347
 ratio = 43.784571637931 contacts = 754

N = 413

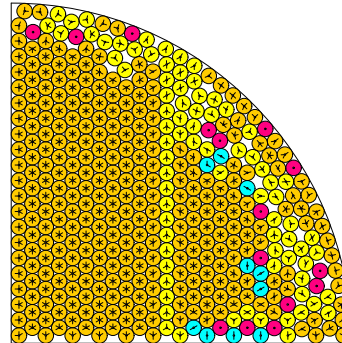
413 circles in a circular quadrant



radius = 0.022793277084 density = 0.858269309326
 ratio = 43.872585601466 contacts = 993

N = 414

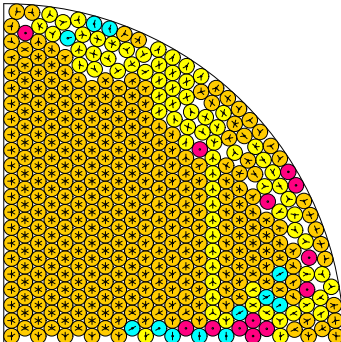
414 circles in a circular quadrant



radius = 0.022780192596 density = 0.859359961317
 ratio = 43.897785138922 contacts = 999

N = 415

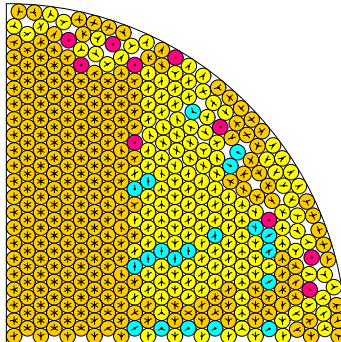
415 circles in a circular quadrant



radius = 0.0227701896342 density = 0.860679252018
 ratio = 43.917071962289 contacts = 993

N = 416

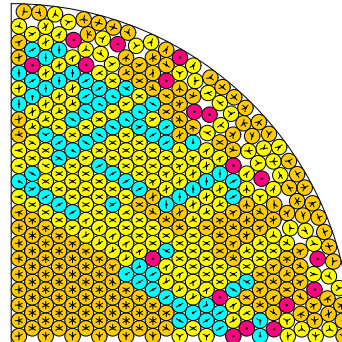
416 circles in a circular quadrant



radius = 0.022746573209 density = 0.860964570370
 ratio = 43.962665974468 contacts = 915

N = 417

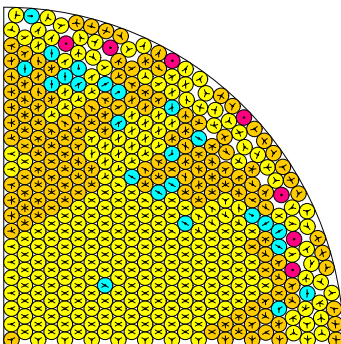
417 circles in a circular quadrant



radius = 0.022734859070 density = 0.862145526649
 ratio = 43.985317741269 contacts = 762

N = 418

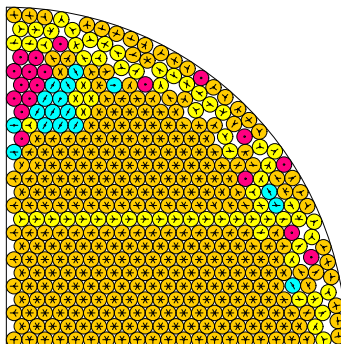
418 circles in a circular quadrant



radius = 0.022711596795 density = 0.8624445403683
 ratio = 44.030369551223 contacts = 815

N = 419

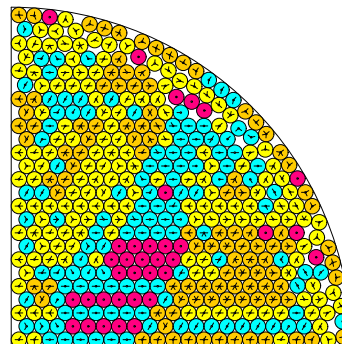
419 circles in a circular quadrant



radius = 0.022675283983 density = 0.861746412213
 ratio = 44.100880974728 contacts = 994

N = 420

420 circles in a circular quadrant



radius = 0.022663429411 density = 0.862900134882
 ratio = 44.123948845725 contacts = 641