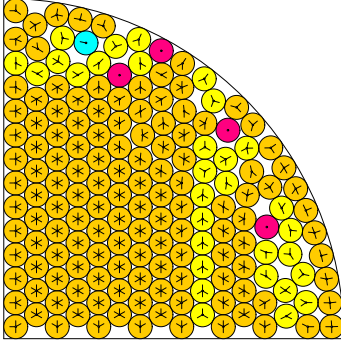


N = 169

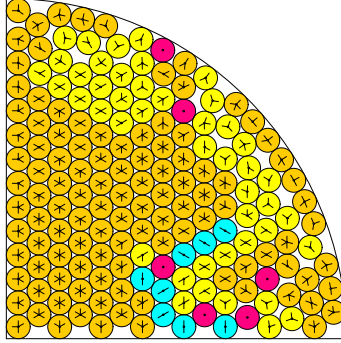
169 circles in a circular quadrant



radius = 0.035211337142 density = 0.83813066012  
 ratio = 28.399943914822 contacts = 400

N = 170

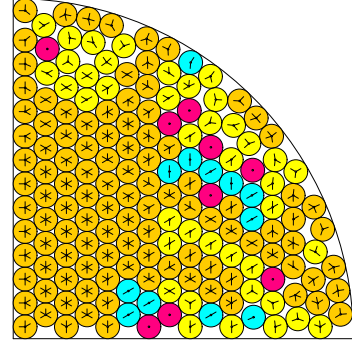
170 circles in a circular quadrant



radius = 0.035131504327 density = 0.839271365470  
 ratio = 28.464679934911 contacts = 361

N = 171

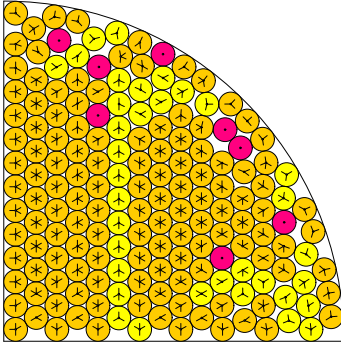
171 circles in a circular quadrant



radius = 0.035024827415 density = 0.839089158248  
 ratio = 28.551175660379 contacts = 353

N = 172

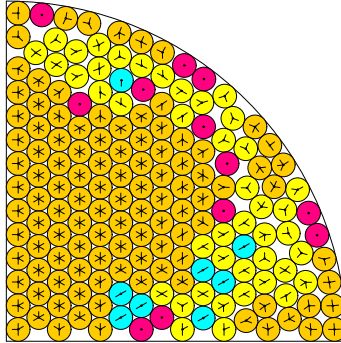
172 circles in a circular quadrant



radius = 0.034938288291 density = 0.839830584208  
 ratio = 28.621894458119 contacts = 377

N = 173

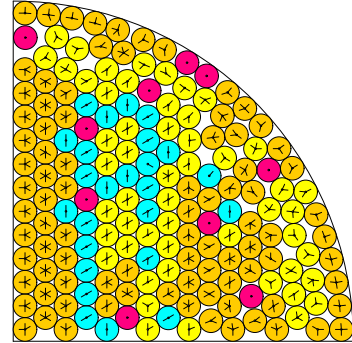
173 circles in a circular quadrant



radius = 0.034838788394 density = 0.839908894302  
 ratio = 28.703638849347 contacts = 368

N = 174

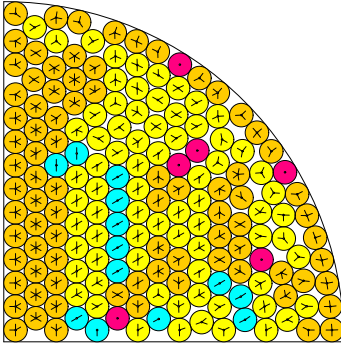
174 circles in a circular quadrant



radius = 0.034724737628 density = 0.839241952737  
 ratio = 28.797913772669 contacts = 321

N = 175

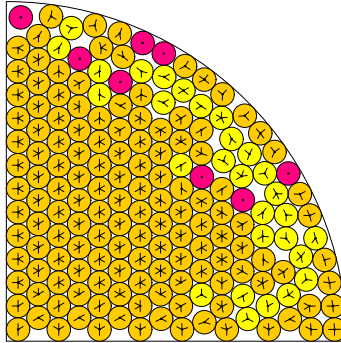
175 circles in a circular quadrant



radius = 0.0346408861395 density = 0.839209921050  
 ratio = 28.898321713464 contacts = 341

N = 176

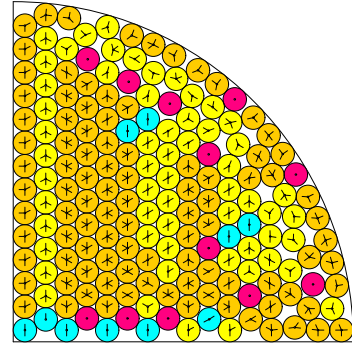
176 circles in a circular quadrant



radius = 0.0345447161650 density = 0.840109442573  
 ratio = 28.947988840607 contacts = 374

N = 177

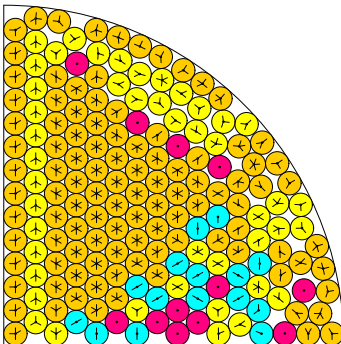
177 circles in a circular quadrant



radius = 0.0344257147133 density = 0.839071923094  
 ratio = 29.048053402968 contacts = 337

N = 178

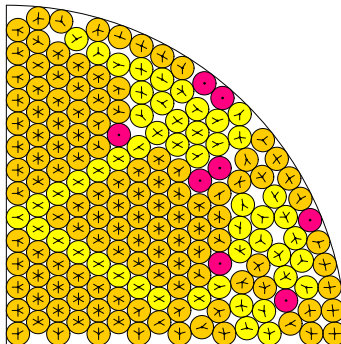
178 circles in a circular quadrant



radius = 0.034338861395 density = 0.839564960040  
 ratio = 29.121439888250 contacts = 358

N = 179

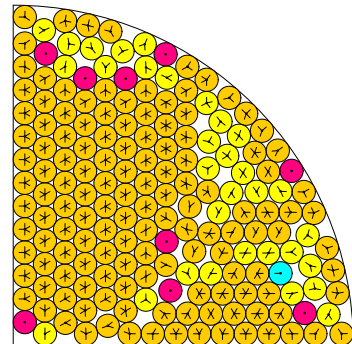
179 circles in a circular quadrant



radius = 0.034219220192 density = 0.838403801884  
 ratio = 29.223342740780 contacts = 392

N = 180

180 circles in a circular quadrant



radius = 0.034131632303 density = 0.83877193016  
 ratio = 29.298335079232 contacts = 379