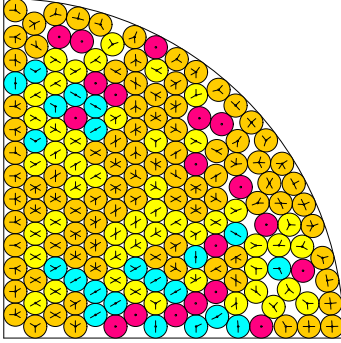


N = 181

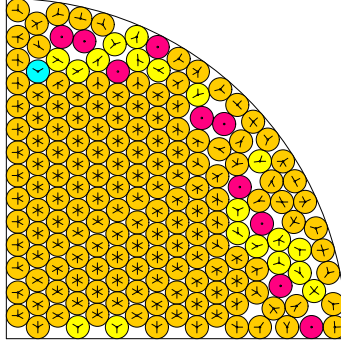
181 circles in a circular quadrant



radius = 0.034048985424 density = 0.839357387665
 ratio = 29.369450735720 contacts = 304

N = 182

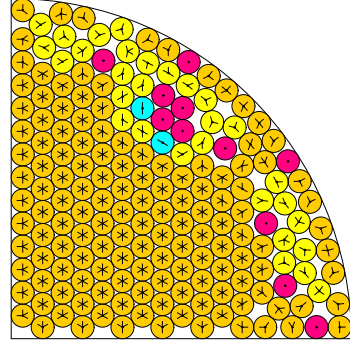
182 circles in a circular quadrant



radius = 0.033938962374 density = 0.838549105600
 ratio = 29.464660379899 contacts = 419

N = 183

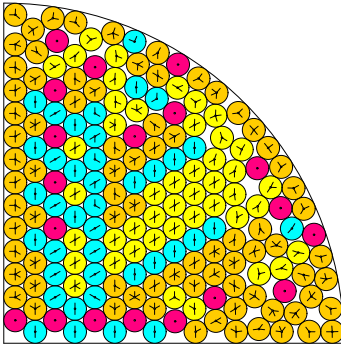
183 circles in a circular quadrant



radius = 0.033860758853 density = 0.839275324750
 ratio = 29.532710839231 contacts = 429

N = 184

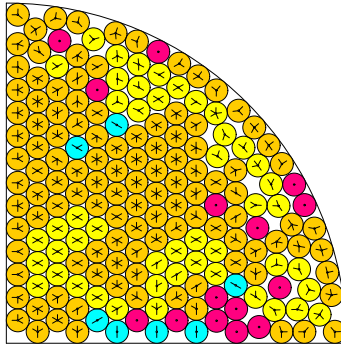
184 circles in a circular quadrant



radius = 0.033784307231 density = 0.840055249517
 ratio = 29.599541383254 contacts = 395

N = 185

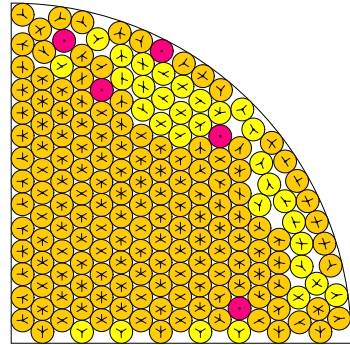
185 circles in a circular quadrant



radius = 0.033689509741 density = 0.839897469284
 ratio = 29.662830284047 contacts = 363

N = 186

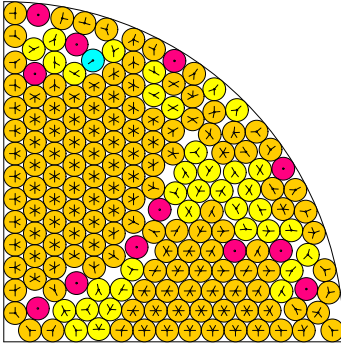
186 circles in a circular quadrant



radius = 0.033585469193 density = 0.839219903217
 ratio = 29.774781298048 contacts = 410

N = 187

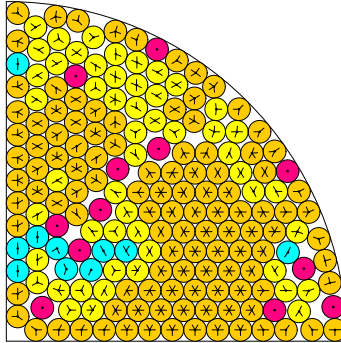
187 circles in a circular quadrant



radius = 0.033487956182 density = 0.840835290510
 ratio = 29.861481978667 contacts = 407

N = 188

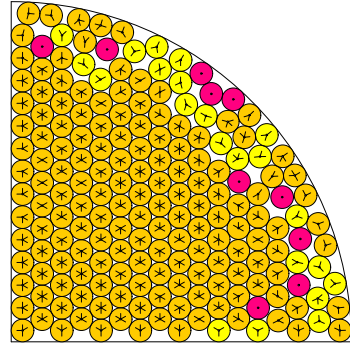
188 circles in a circular quadrant



radius = 0.033389836071 density = 0.843607082657
 ratio = 29.949231589634 contacts = 371

N = 189

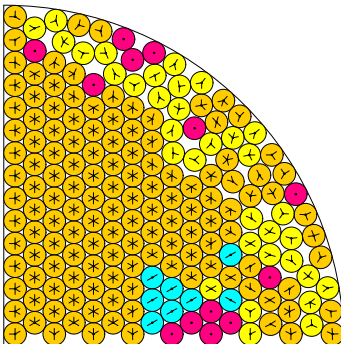
189 circles in a circular quadrant



radius = 0.033318133697 density = 0.84324113005
 ratio = 30.013685913008 contacts = 426

N = 190

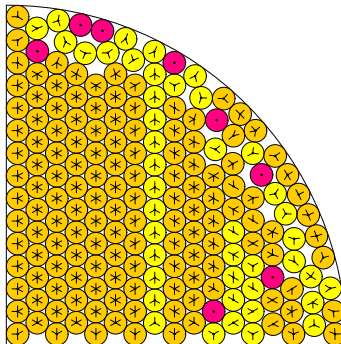
190 circles in a circular quadrant



radius = 0.033258216028 density = 0.840642789342
 ratio = 30.067758269642 contacts = 426

N = 191

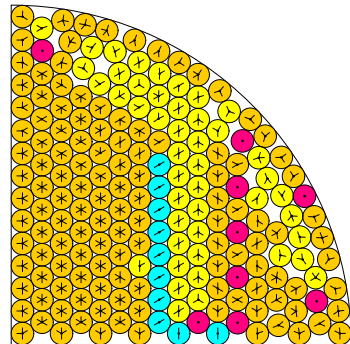
191 circles in a circular quadrant



radius = 0.033229471139 density = 0.843607082657
 ratio = 30.093768143968 contacts = 446

N = 192

192 circles in a circular quadrant



radius = 0.033144324004 density = 0.843683492087
 ratio = 30.171078459519 contacts = 405