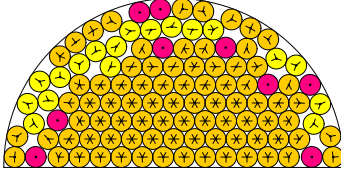


N = 109

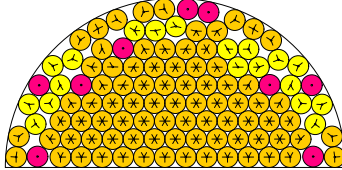
109 circles in a semicircle



radius = 0.061537390876 density = 0.82553403725
ratio = 16.250282726773 contacts = 239

N = 110

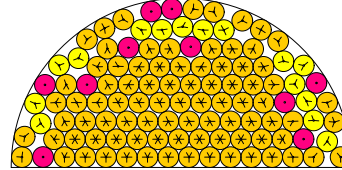
110 circles in a semicircle



radius = 0.061391600386 density = 0.829164291557
ratio = 16.288873293874 contacts = 248

N = 111

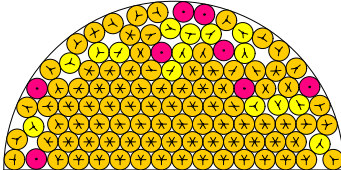
111 circles in a semicircle



radius = 0.061049338307 density = 0.827398819103
ratio = 16.380193917548 contacts = 239

N = 112

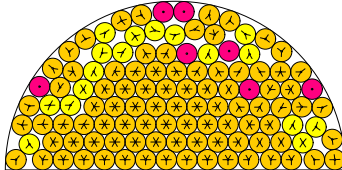
112 circles in a semicircle



radius = 0.060828833303 density = 0.828832919262
ratio = 16.439572250552 contacts = 242

N = 113

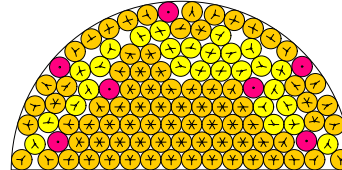
113 circles in a semicircle



radius = 0.060514942949 density = 0.827625180352
ratio = 16.524844133789 contacts = 248

N = 114

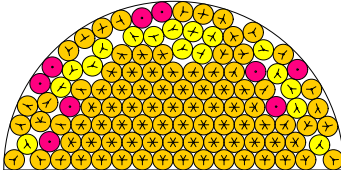
114 circles in a semicircle



radius = 0.060258226782 density = 0.827880288034
ratio = 16.595244390802 contacts = 247

N = 115

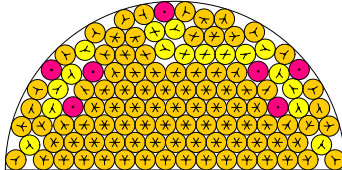
115 circles in a semicircle



radius = 0.060005068920 density = 0.828139908105
ratio = 16.665258752239 contacts = 257

N = 116

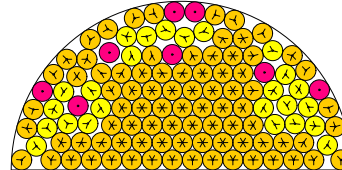
116 circles in a semicircle



radius = 0.059787346818 density = 0.829290226778
ratio = 16.725947097811 contacts = 265

N = 117

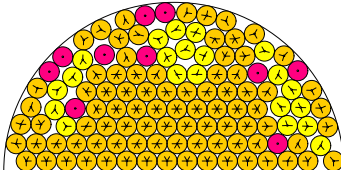
117 circles in a semicircle



radius = 0.059404880382 density = 0.825771916291
ratio = 16.833633761544 contacts = 257

N = 118

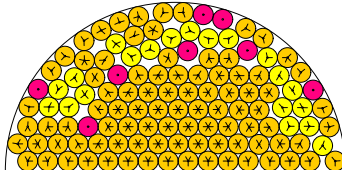
118 circles in a semicircle



radius = 0.059125781996 density = 0.825022510806
ratio = 16.913095543805 contacts = 247

N = 119

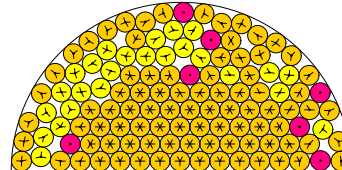
119 circles in a semicircle



radius = 0.058839042929 density = 0.823963847534
ratio = 16.99551775542 contacts = 258

N = 120

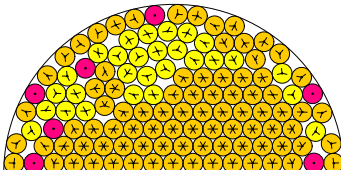
120 circles in a semicircle



radius = 0.058589552977 density = 0.823856572329
ratio = 17.067889228905 contacts = 263

N = 121

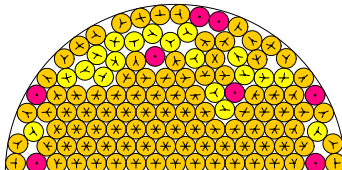
121 circles in a semicircle



radius = 0.058396080171 density = 0.825316179589
ratio = 17.123695774916 contacts = 262

N = 122

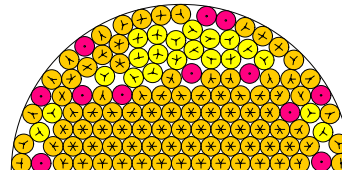
122 circles in a semicircle



radius = 0.058202497466 density = 0.826557493553
ratio = 17.181393299901 contacts = 268

N = 123

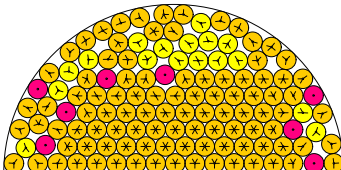
123 circles in a semicircle



radius = 0.057936521443 density = 0.825733567149
ratio = 17.260269948912 contacts = 263

N = 124

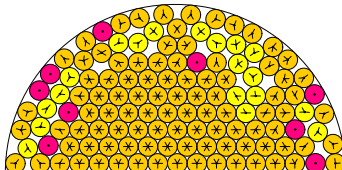
124 circles in a semicircle



radius = 0.057716970061 density = 0.826149661002
ratio = 17.325926827685 contacts = 268

N = 125

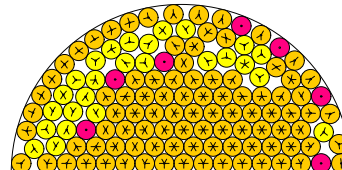
125 circles in a semicircle



radius = 0.057576519673 density = 0.828763904425
ratio = 17.368191159745 contacts = 276

N = 126

126 circles in a semicircle



radius = 0.057363112651 density = 0.829212726650
ratio = 17.432805748836 contacts = 275