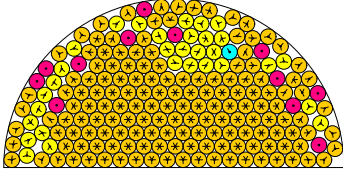


N = 199

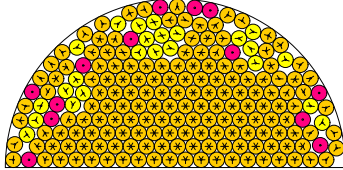
199 circles in a semicircle



radius = 0.046011204980 density = 0.842578331533 contacts = 462 ratio = 21.733836364970

N = 200

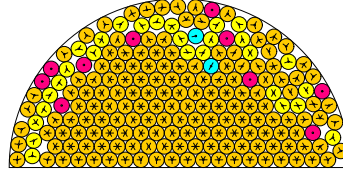
200 circles in a semicircle



radius = 0.045925579937 density = 0.843663557026 contacts = 468 ratio = 21.774357588253

N = 201

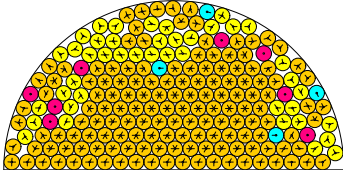
201 circles in a semicircle



radius = 0.045805770099 density = 0.843463766905 contacts = 459 ratio = 21.831310724211

N = 202

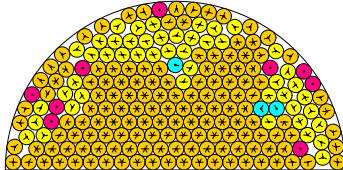
202 circles in a semicircle



radius = 0.045706004515 density = 0.843971694903 contacts = 440 ratio = 21.878963400988

N = 203

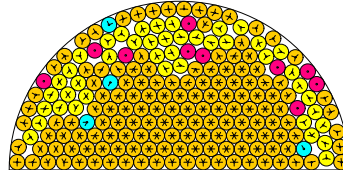
203 circles in a semicircle



radius = 0.045598196785 density = 0.844153393300 contacts = 446 ratio = 21.930691793041

N = 204

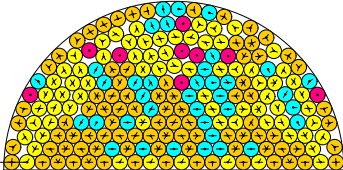
204 circles in a semicircle



radius = 0.045482723794 density = 0.844020690796 contacts = 466 ratio = 21.986370133212

N = 205

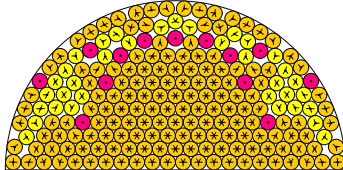
205 circles in a semicircle



radius = 0.045405558182 density = 0.845282532659 contacts = 342 ratio = 22.023735420336

N = 206

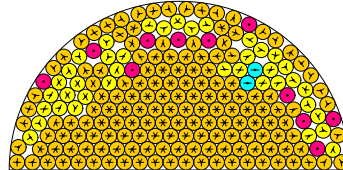
206 circles in a semicircle



radius = 0.045315606544 density = 0.846043728930 contacts = 465 ratio = 22.067452612237

N = 207

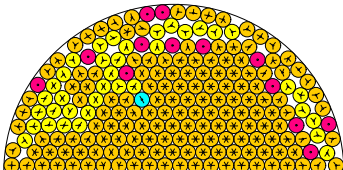
207 circles in a semicircle



radius = 0.045158063790 density = 0.844249800259 contacts = 460 ratio = 22.144439244566

N = 208

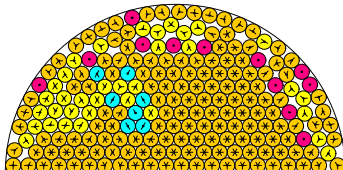
208 circles in a semicircle



radius = 0.045036303332 density = 0.843734527757 contacts = 468 ratio = 22.204640917081

N = 209

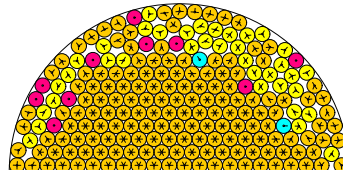
209 circles in a semicircle



radius = 0.044916766539 density = 0.843321653007 contacts = 455 ratio = 22.2634601332340

N = 210

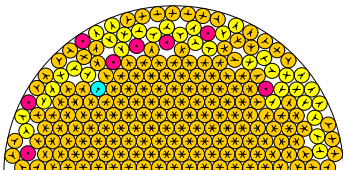
210 circles in a semicircle



radius = 0.044747780866 density = 0.840992834816 contacts = 491 ratio = 22.347476917299

N = 211

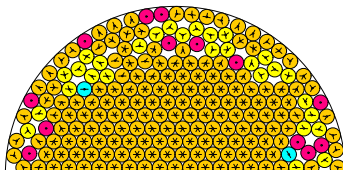
211 circles in a semicircle



radius = 0.044632716935 density = 0.840657515671 contacts = 497 ratio = 22.405089106523

N = 212

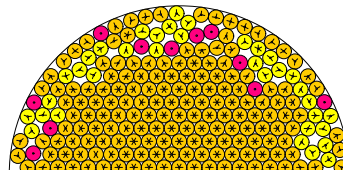
212 circles in a semicircle



radius = 0.04450724821 density = 0.841919075336 contacts = 476 ratio = 22.461286671691

N = 213

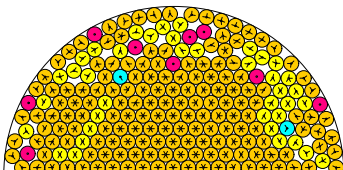
213 circles in a semicircle



radius = 0.04444054534 density = 0.842982051929 contacts = 492 ratio = 22.479965247498

N = 214

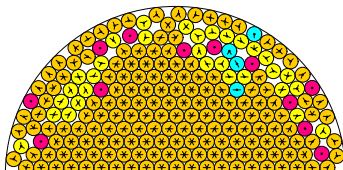
214 circles in a semicircle



radius = 0.044364254454 density = 0.842384067350 contacts = 472 ratio = 22.540669561793

N = 215

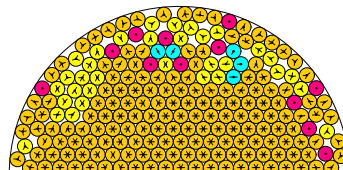
215 circles in a semicircle



radius = 0.044291867299 density = 0.843560888786 contacts = 483 ratio = 22.577508264806

N = 216

216 circles in a semicircle



radius = 0.044205544145 density = 0.844184217516 contacts = 483 ratio = 22.621596891198