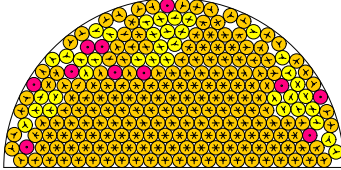


N = 235

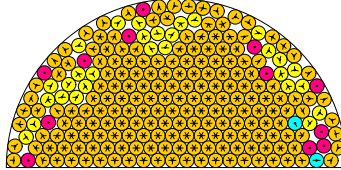
235 circles in a semicircle



radius = 0.042469229729 density = 0.847708672658
ratio = 23.546459551794 contacts = 540

N = 236

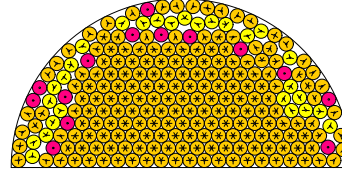
236 circles in a semicircle



radius = 0.042373194553 density = 0.847470155041
ratio = 23.599825563142 contacts = 564

N = 237

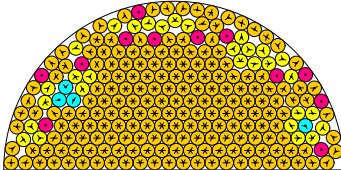
237 circles in a semicircle



radius = 0.042276476564 density = 0.847180423076
ratio = 23.653816052944 contacts = 567

N = 238

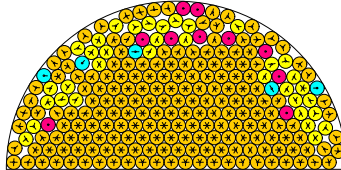
238 circles in a semicircle



radius = 0.042203298992 density = 0.847812380201
ratio = 23.694830117233 contacts = 551

N = 239

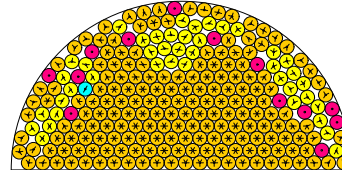
239 circles in a semicircle



radius = 0.042105450230 density = 0.847431352875
ratio = 23.749894480121 contacts = 557

N = 240

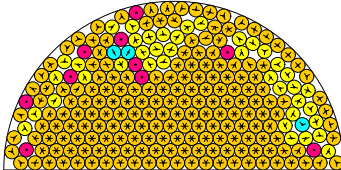
240 circles in a semicircle



radius = 0.041981279111 density = 0.845965341991
ratio = 23.820141290855 contacts = 561

N = 241

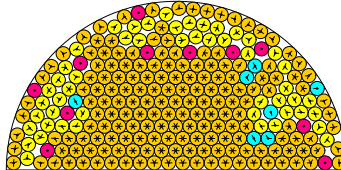
241 circles in a semicircle



radius = 0.041892963554 density = 0.845919830542
ratio = 23.870357099874 contacts = 566

N = 242

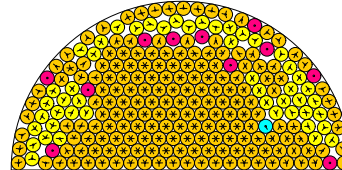
242 circles in a semicircle



radius = 0.041793102943 density = 0.845385111554
ratio = 23.927393028423 contacts = 551

N = 243

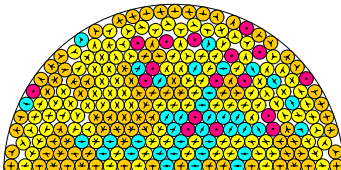
243 circles in a semicircle



radius = 0.041698207017 density = 0.845027867644
ratio = 23.981846500037 contacts = 561

N = 244

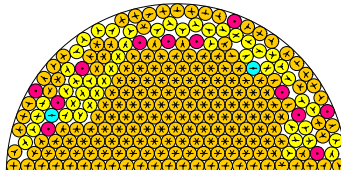
244 circles in a semicircle



radius = 0.041629312397 density = 0.845703829505
ratio = 24.021535365993 contacts = 402

N = 245

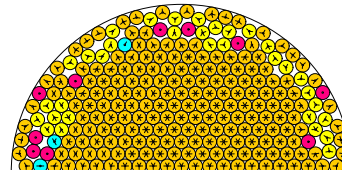
245 circles in a semicircle



radius = 0.041524607912 density = 0.844903600517
ratio = 24.082105774703 contacts = 557

N = 246

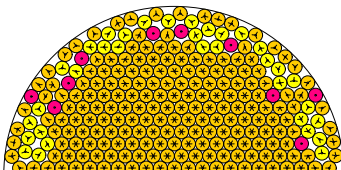
246 circles in a semicircle



radius = 0.041451599501 density = 0.845371669805
ratio = 24.124521418398 contacts = 580

N = 247

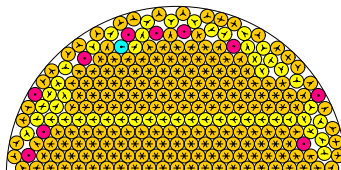
247 circles in a semicircle



radius = 0.041369993908 density = 0.845469339592
ratio = 24.172108949972 contacts = 595

N = 248

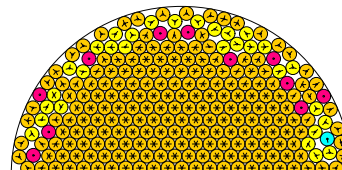
248 circles in a semicircle



radius = 0.041312575864 density = 0.846537546557
ratio = 24.205704415391 contacts = 583

N = 249

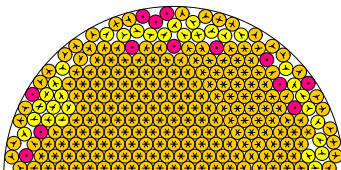
249 circles in a semicircle



radius = 0.041218400963 density = 0.846080375802
ratio = 24.261009079574 contacts = 597

N = 250

250 circles in a semicircle



radius = 0.041124237386 density = 0.845601450295
ratio = 24.316560343987 contacts = 598