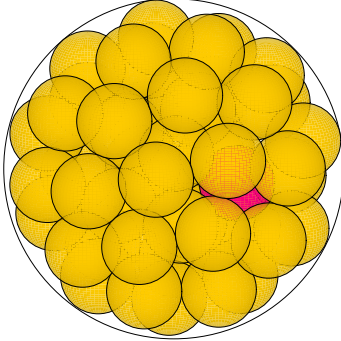


**N = 49**

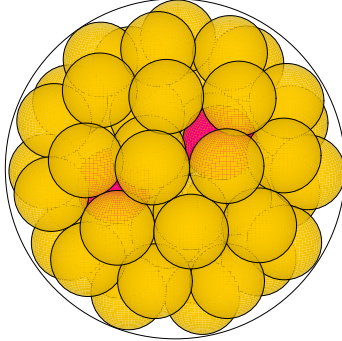
49 spheres in a sphere



radius = 0.221278177007 density = 0.530898911129  
ratio = 4.519198474635 contacts = 142

**N = 50**

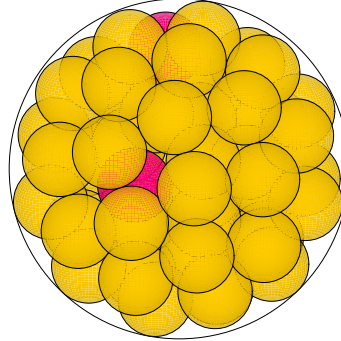
50 spheres in a sphere



radius = 0.219758275796 density = 0.530647009782  
ratio = 4.550454340697 contacts = 142

**N = 51**

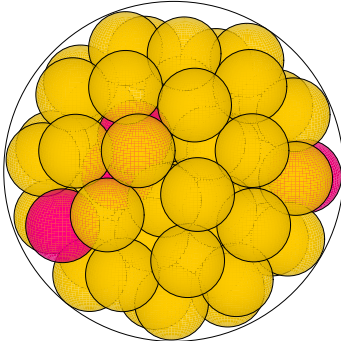
51 spheres in a sphere



radius = 0.218550295807 density = 0.532383236403  
ratio = 4.575605795030 contacts = 145

**N = 52**

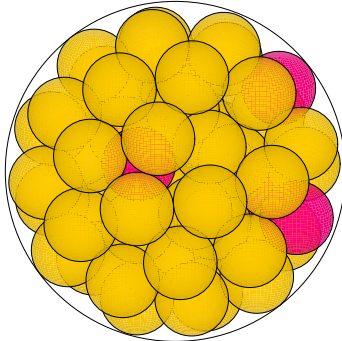
52 spheres in a sphere



radius = 0.2169320407731 density = 0.530841223195  
ratio = 4.609773293009 contacts = 142

**N = 53**

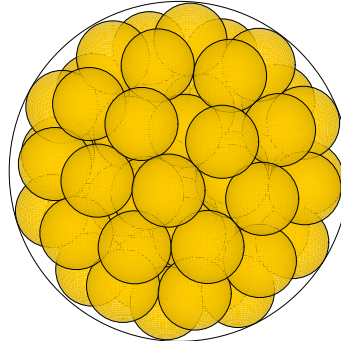
53 spheres in a sphere



radius = 0.216288057367 density = 0.536257636148  
ratio = 4.623463783356 contacts = 142

**N = 54**

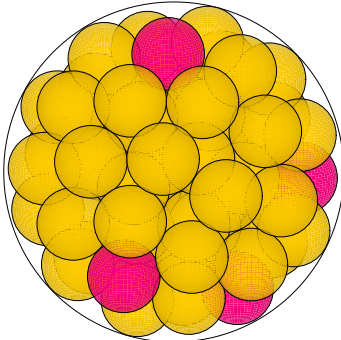
54 spheres in a sphere



radius = 0.214920670908 density = 0.53678417223  
ratio = 4.62879575404 contacts = 160

**N = 55**

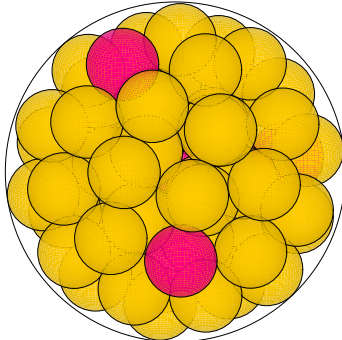
55 spheres in a sphere



radius = 0.213441698789 density = 0.540811127622  
ratio = 4.688120351482 contacts = 151

**N = 56**

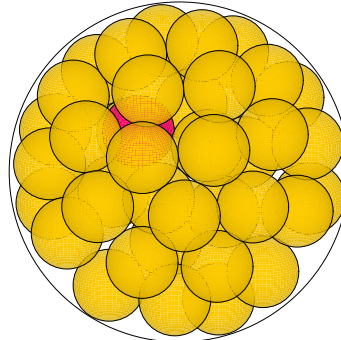
56 spheres in a sphere



radius = 0.213067869308 density = 0.541678896170  
ratio = 4.693340217123 contacts = 154

**N = 57**

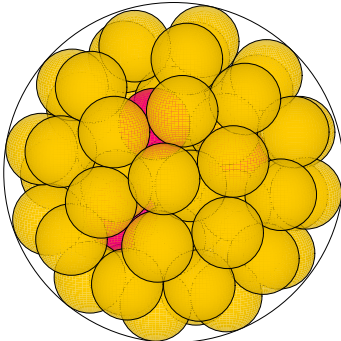
57 spheres in a sphere



radius = 0.211327241143 density = 0.537949249393  
ratio = 4.731997609931 contacts = 166

**N = 58**

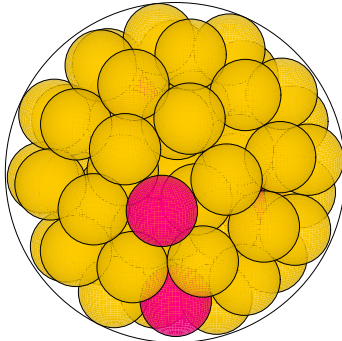
58 spheres in a sphere



radius = 0.210480101312 density = 0.540830438196  
ratio = 4.751042943094 contacts = 165

**N = 59**

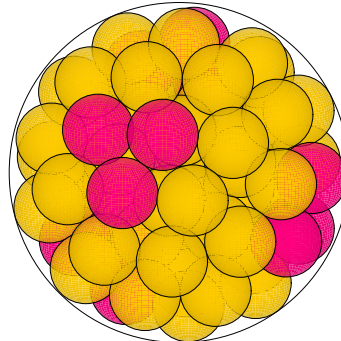
59 spheres in a sphere



radius = 0.209759450876 density = 0.544523495682  
ratio = 4.767365645857 contacts = 163

**N = 60**

60 spheres in a sphere



radius = 0.209426996435 density = 0.551123897404  
ratio = 4.774933590333 contacts = 156