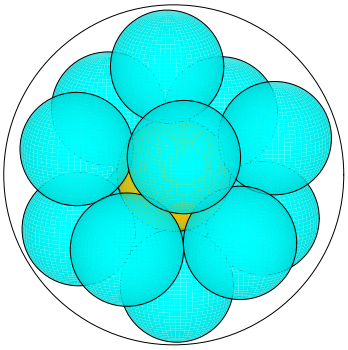
N = 13

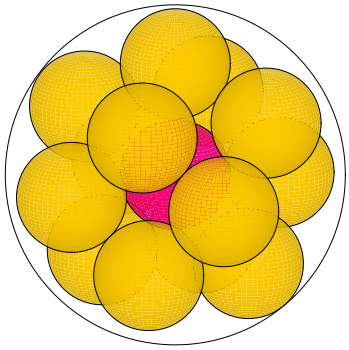
13 spheres in a sphere



radius = 0.333333333333 density = 0.481481481480
ratio = 3.000000000000 contacts = 24

N = 14

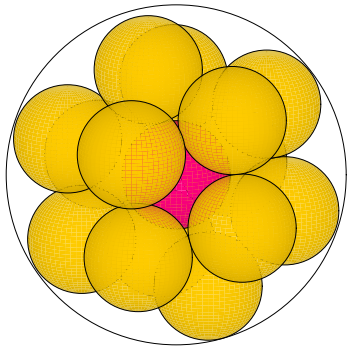
14 spheres in a sphere



radius = 0.323504674183 density = 0.473990585425
ratio = 3.091145444886 contacts = 37

N = 15

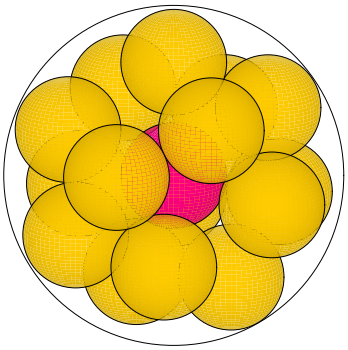
15 spheres in a sphere



radius = 0.318304823107 density = 0.483749932003
ratio = 3.141642624950 contacts = 42

N = 16

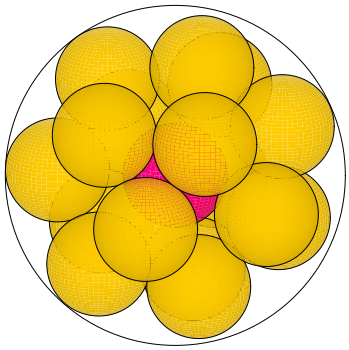
16 spheres in a sphere



radius = 0.310975923325 density = 0.481171926089
ratio = 3.215683032010 contacts = 45

N = 17

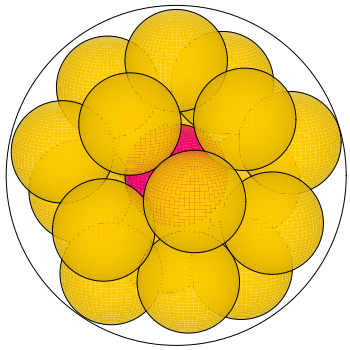
17 spheres in a sphere



radius = 0.305893961650 density = 0.485634466608
ratio = 3.271245511096 contacts = 48

N = 18

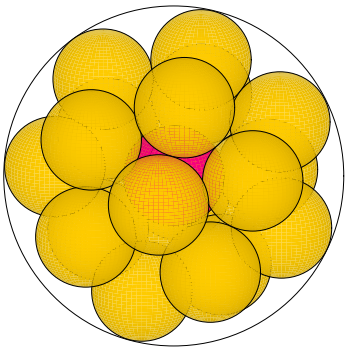
18 spheres in a sphere



radius = 0.301296589342 density = 0.492328697969
ratio = 3.318988781731 contacts = 51

N = 19

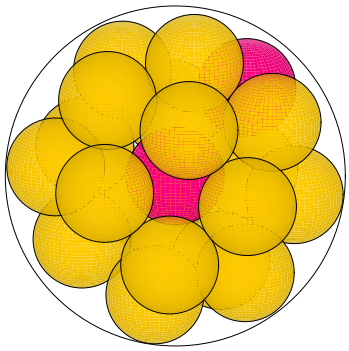
19 spheres in a sphere



radius = 0.295332333897 density = 0.489425500215
ratio = 3.386015973276 contacts = 52

N = 20

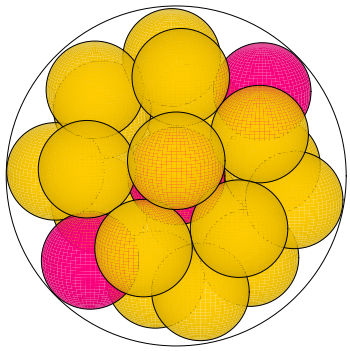
20 spheres in a sphere



radius = 0.287890825717 density = 0.477214324831
ratio = 3.473538962242 contacts = 52

N = 21

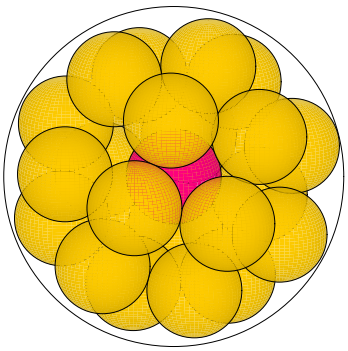
21 spheres in a sphere



radius = 0.286832818119 density = 0.495570920187
ratio = 3.486351410406 contacts = 57

N = 22

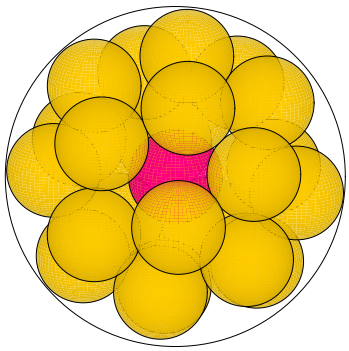
22 spheres in a sphere



radius = 0.279342624810 density = 0.479550457554
ratio = 3.579833191158 contacts = 61

N = 23

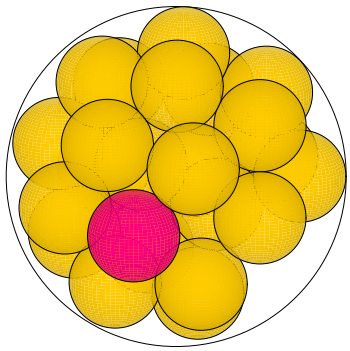
23 spheres in a sphere



radius = 0.275670701290 density = 0.481836470826
ratio = 3.627516436533 contacts = 64

N = 24

24 spheres in a sphere



radius = 0.271341339941 density = 0.479467459313
ratio = 3.685394935456 contacts = 68