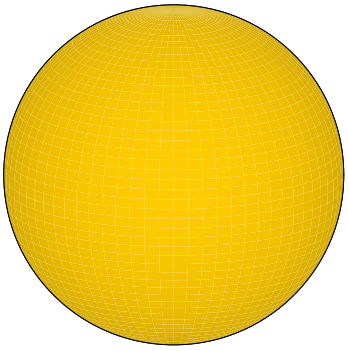
N = 1

1 sphere in a sphere



radius = 1.000000000000 density = 1.000000000000
ratio = 1.000000000000 contacts = 1

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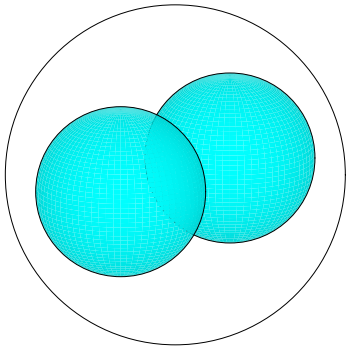
N = 2

2 spheres in a sphere



radius = 0.500000000000 density = 0.250000000000
ratio = 2.000000000000 contacts = 3

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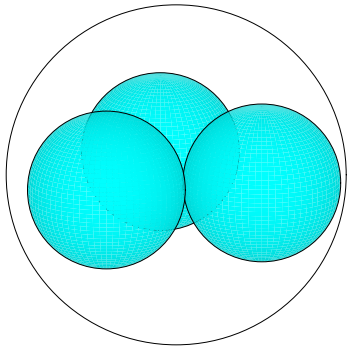
N = 3

3 spheres in a sphere



radius = 0.464101615138 density = 0.299888971118
ratio = 2.154700538378 contacts = 6

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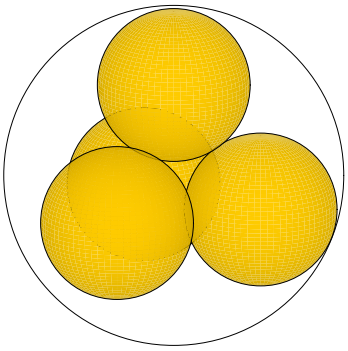
N = 4

4 spheres in a sphere



radius = 0.449489742783 density = 0.363261480388
ratio = 2.224744871392 contacts = 10

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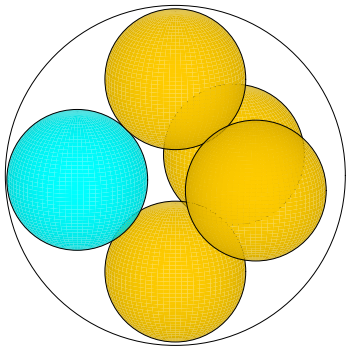
N = 5

5 spheres in a sphere



radius = 0.414213562373 density = 0.355339059327
ratio = 2.414213562374 contacts = 12

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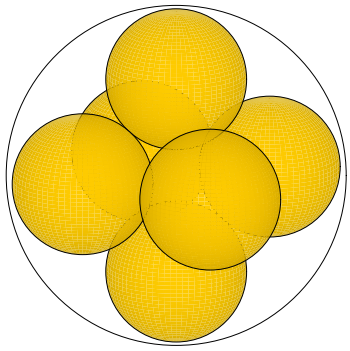
N = 6

6 spheres in a sphere



radius = 0.414213562373 density = 0.426406871193
ratio = 2.414213562373 contacts = 18

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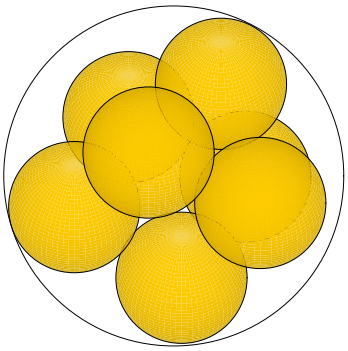
N = 7

7 spheres in a sphere



radius = 0.385913557400 density = 0.402316780932
ratio = 2.591253872337 contacts = 19

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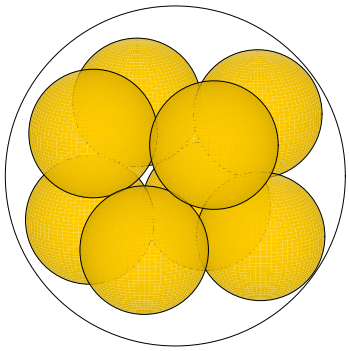
N = 8

8 spheres in a sphere



radius = 0.378024844801 density = 0.432166419789
ratio = 2.645328776013 contacts = 24

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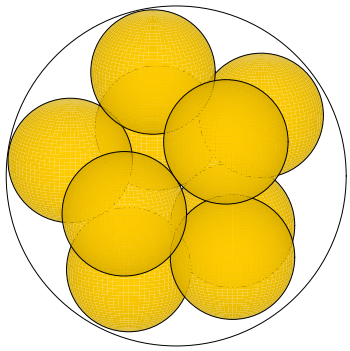
N = 9

9 spheres in a sphere



radius = 0.366025403785 density = 0.441342951092
ratio = 2.732050807565 contacts = 27

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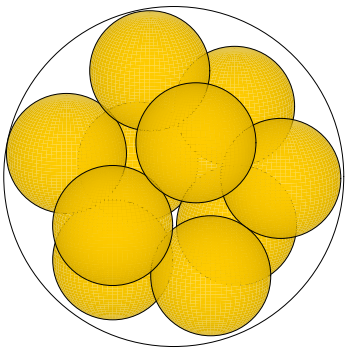
N = 10

10 spheres in a sphere



radius = 0.353049430432 density = 0.440054580178
ratio = 2.832464561057 contacts = 29

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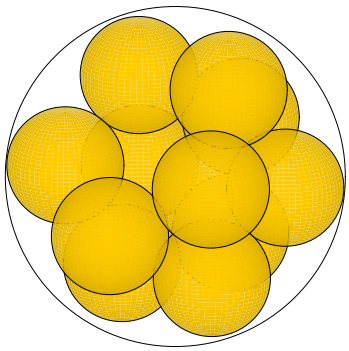
N = 11

11 spheres in a sphere



radius = 0.344576516755 density = 0.450038547852
ratio = 2.902113032592 contacts = 36

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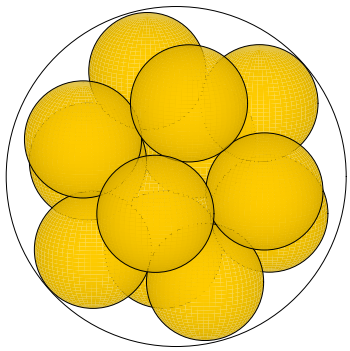
N = 12

12 spheres in a sphere



radius = 0.344576516755 density = 0.490951143111
ratio = 2.902113032592 contacts = 42

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