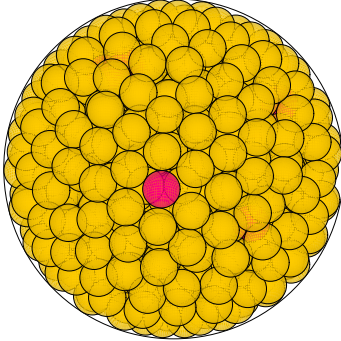


N = 445

445 spheres in a sphere

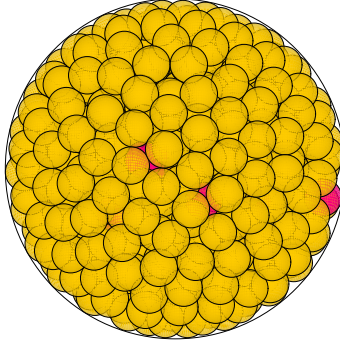


radius = 0.110194692365 density = 0.59544532768  
ratio = 9.074847241169 contacts = 1305

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N = 446

446 spheres in a sphere

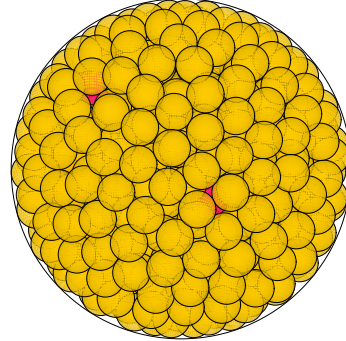


radius = 0.110124591676 density = 0.59544539865  
ratio = 9.080623907717 contacts = 1309

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N = 447

447 spheres in a sphere

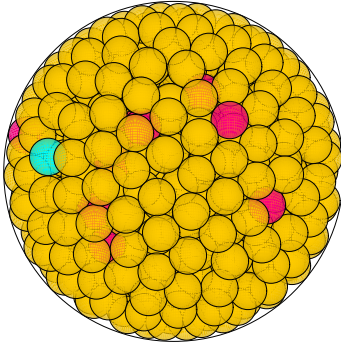


radius = 0.110044469557 density = 0.595678859225  
ratio = 9.087235406065 contacts = 1309

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N = 448

448 spheres in a sphere

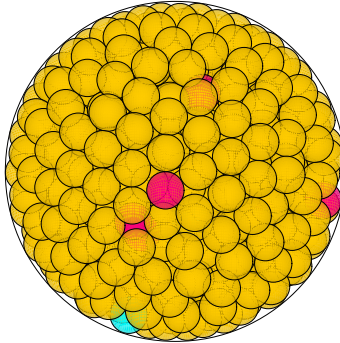


radius = 0.109965274119 density = 0.595723452092  
ratio = 9.093773904716 contacts = 1299

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N = 449

449 spheres in a sphere

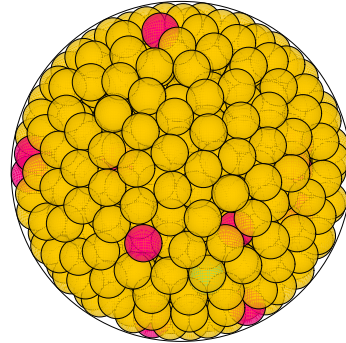


radius = 0.109860500143 density = 0.595348215882  
ratio = 9.102453244015 contacts = 1306

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N = 450

450 spheres in a sphere

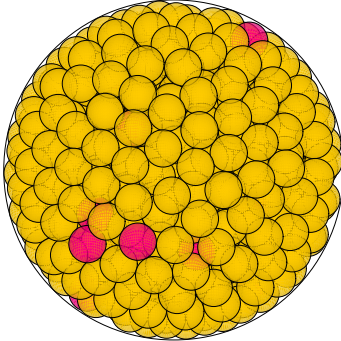


radius = 0.109770115411 density = 0.595202677540  
ratio = 9.109947603100 contacts = 1295

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N = 451

451 spheres in a sphere

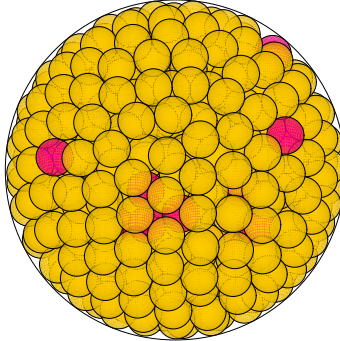


radius = 0.109681879273 density = 0.595672157892  
ratio = 9.117276314273 contacts = 1289

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N = 452

452 spheres in a sphere

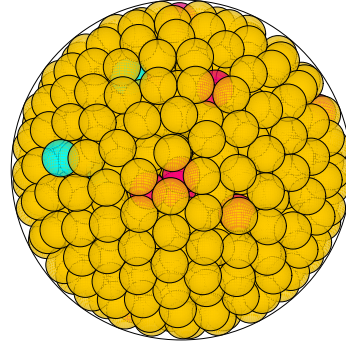


radius = 0.109596660874 density = 0.595018409004  
ratio = 9.124365578565 contacts = 1316

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N = 453

453 spheres in a sphere

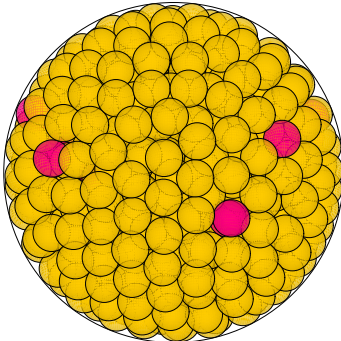


radius = 0.109542039748 density = 0.595443656081  
ratio = 9.128915275820 contacts = 1315

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N = 454

454 spheres in a sphere

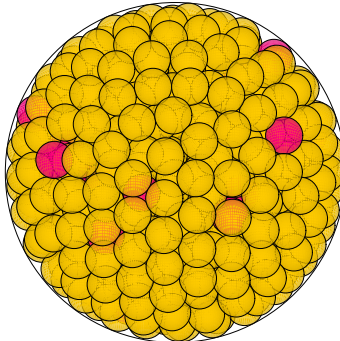


radius = 0.109475553468 density = 0.595672157892  
ratio = 9.134659614195 contacts = 1323

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N = 455

455 spheres in a sphere

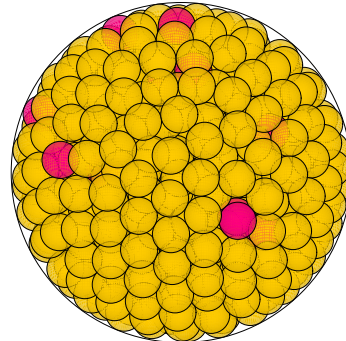


radius = 0.109394347733 density = 0.595656720471  
ratio = 9.141240116361 contacts = 1311

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N = 456

456 spheres in a sphere



radius = 0.109329526213 density = 0.595905290101  
ratio = 9.146659961297 contacts = 1319

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