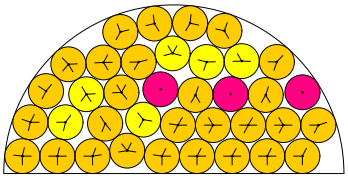
N = 37

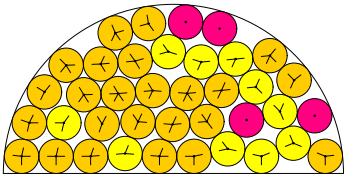
37 circles in a semicircle



radius = 0.103223971064 density = 0.788483926957
ratio = 9.687672249931 contacts = 69

N = 38

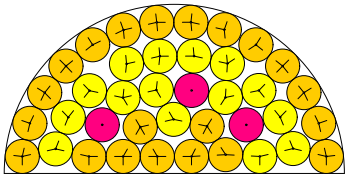
38 circles in a semicircle



radius = 0.101505935590 density = 0.783062576955
ratio = 9.851640637474 contacts = 69

N = 39

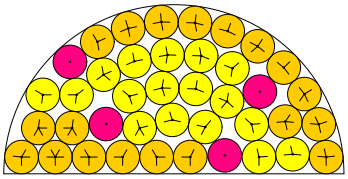
39 circles in a semicircle



radius = 0.100515207677 density = 0.788057944005
ratio = 9.948743310665 contacts = 73

N = 40

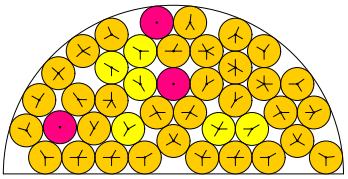
40 circles in a semicircle



radius = 0.099066823854 density = 0.785138847074
ratio = 10.094196635175 contacts = 74

N = 41

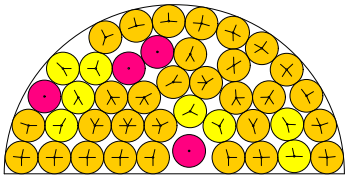
41 circles in a semicircle



radius = 0.097539055720 density = 0.780137126039
ratio = 10.252303475975 contacts = 77

N = 42

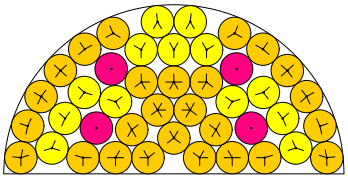
42 circles in a semicircle



radius = 0.096615980540 density = 0.784110406440
ratio = 10.350254630861 contacts = 78

N = 43

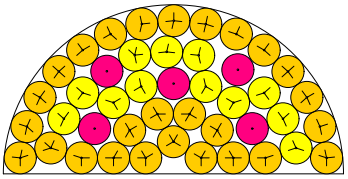
43 circles in a semicircle



radius = 0.095593885557 density = 0.785884422203
ratio = 10.460920111942 contacts = 80

N = 44

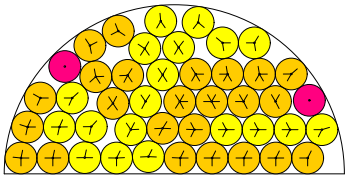
44 circles in a semicircle



radius = 0.094497292785 density = 0.785816974240
ratio = 10.582313741817 contacts = 80

N = 45

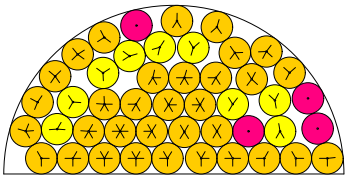
45 circles in a semicircle



radius = 0.093666768138 density = 0.789611710815
ratio = 10.676145017858 contacts = 88

N = 46

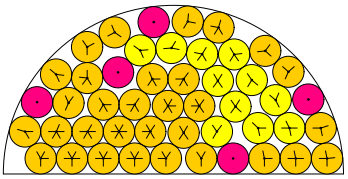
46 circles in a semicircle



radius = 0.092716338801 density = 0.790861392220
ratio = 10.785585506634 contacts = 90

N = 47

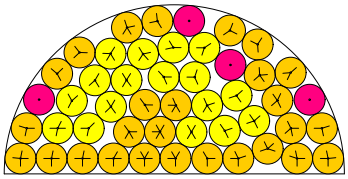
47 circles in a semicircle



radius = 0.092056532078 density = 0.796594079235
ratio = 10.862890198291 contacts = 90

N = 48

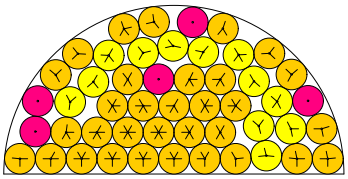
48 circles in a semicircle



radius = 0.091151466676 density = 0.797624628212
ratio = 10.970750515215 contacts = 90

N = 49

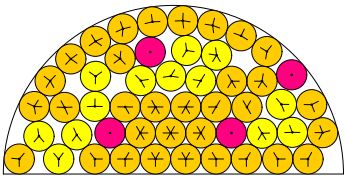
49 circles in a semicircle



radius = 0.090569956715 density = 0.803885871823
ratio = 11.041188891622 contacts = 96

N = 50

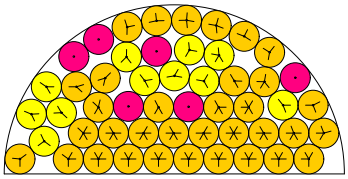
50 circles in a semicircle



radius = 0.089093785529 density = 0.793770261990
ratio = 11.224127407558 contacts = 96

N = 51

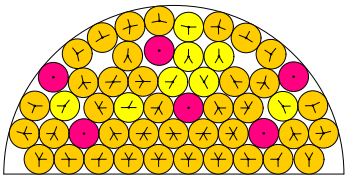
51 circles in a semicircle



radius = 0.088364179560 density = 0.796439279382
ratio = 11.316802860437 contacts = 99

N = 52

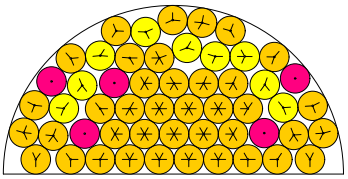
52 circles in a semicircle



radius = 0.087817433818 density = 0.802037774958
ratio = 11.387260553276 contacts = 97

N = 53

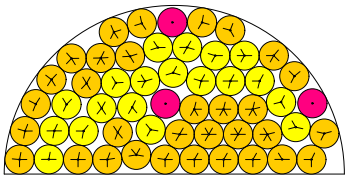
53 circles in a semicircle



radius = 0.086833227715 density = 0.799241000157
ratio = 11.516328786940 contacts = 107

N = 54

54 circles in a semicircle



radius = 0.086024724524 density = 0.799227348784
ratio = 11.624564978617 contacts = 105