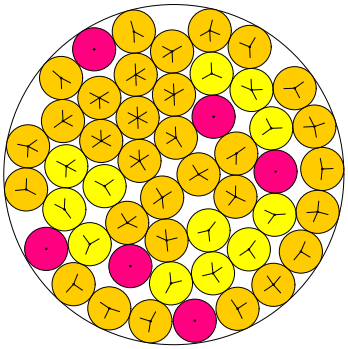
N = 49

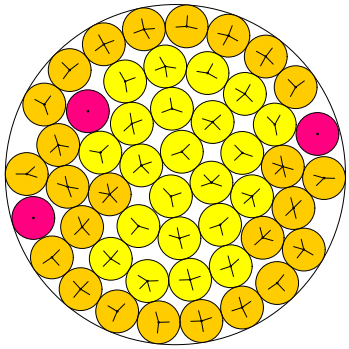
49 circles in a circle



radius = 0.126792996262 density = 0.787746731156
ratio = 7.886870958803 contacts = 87

N = 50

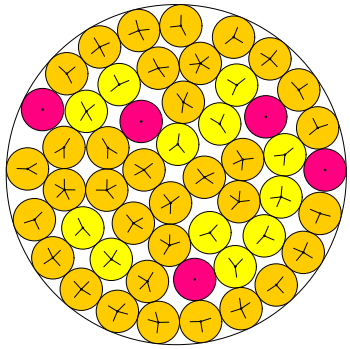
50 circles in a circle



radius = 0.125825489530 density = 0.791602690778
ratio = 7.947515274784 contacts = 94

N = 51

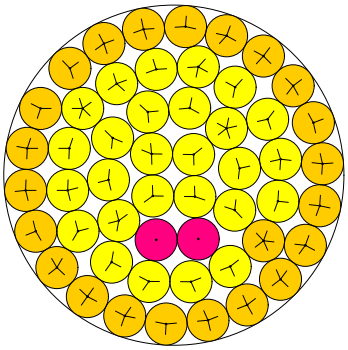
51 circles in a circle



radius = 0.124571676602 density = 0.791423233188
ratio = 8.027506952419 contacts = 92

N = 52

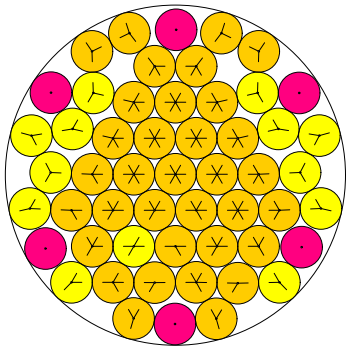
52 circles in a circle



radius = 0.123690164592 density = 0.795561354479
ratio = 8.084717190690 contacts = 100

N = 53

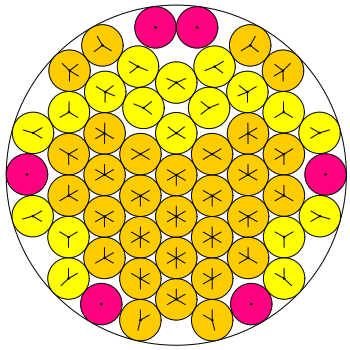
53 circles in a circle



radius = 0.122255623688 density = 0.792161188732
ratio = 8.179582826841 contacts = 101

N = 54

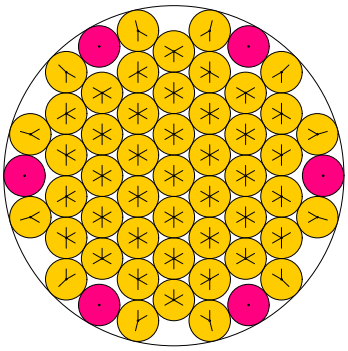
54 circles in a circle



radius = 0.121892921857 density = 0.802313909588
ratio = 8.203982383469 contacts = 103

N = 55

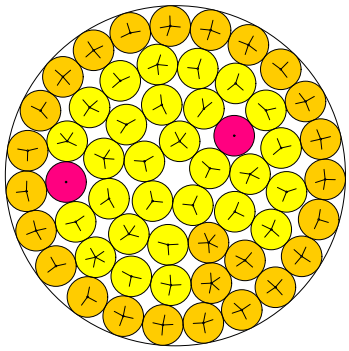
55 circles in a circle



radius = 0.121786324528 density = 0.815754986312
ratio = 8.211102550928 contacts = 126

N = 56

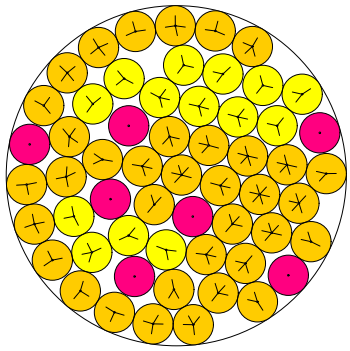
56 circles in a circle



radius = 0.119281497082 density = 0.796772230588
ratio = 8.383529922579 contacts = 108

N = 57

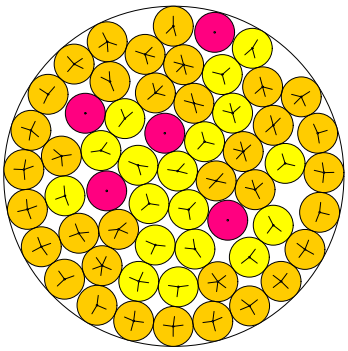
57 circles in a circle



radius = 0.118382637652 density = 0.798823587148
ratio = 8.447184653410 contacts = 101

N = 58

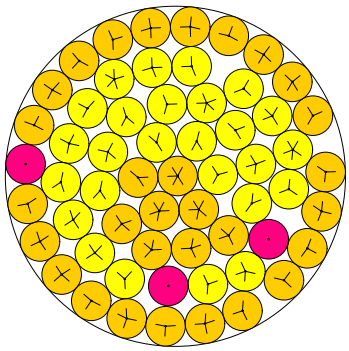
58 circles in a circle



radius = 0.117308193128 density = 0.798150306151
ratio = 8.524553770140 contacts = 107

N = 59

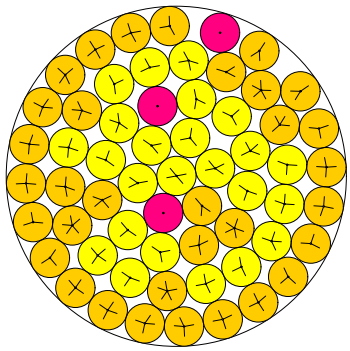
59 circles in a circle



radius = 0.116380564996 density = 0.799121718619
ratio = 8.592499959370 contacts = 112

N = 60

60 circles in a circle



radius = 0.115657480133 density = 0.802599162640
ratio = 8.646219845458 contacts = 115