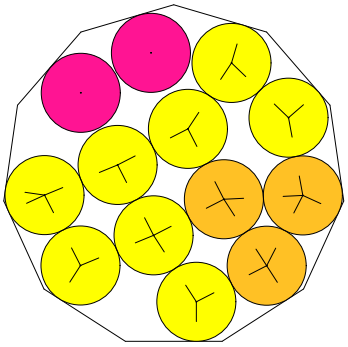
N = 13

13 circles in a hendecagon



radius = 0.230119021079 density = 0.727322026602
ratio = 4.345577324782 contacts = 23

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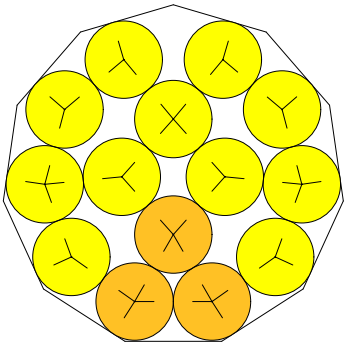
N = 14

14 circles in a hendecagon



radius = 0.225258087592 density = 0.750528473597
ratio = 4.439352258949 contacts = 29

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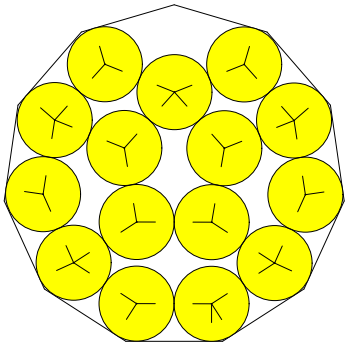
N = 15

15 circles in a hendecagon



radius = 0.218430686025 density = 0.756130768396
ratio = 4.578111336818 contacts = 31

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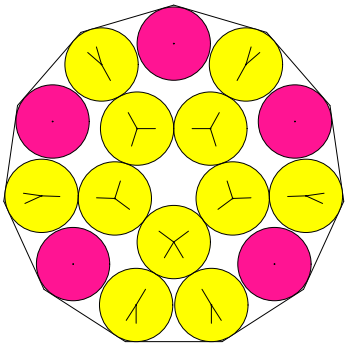
N = 16

16 circles in a hendecagon



radius = 0.213417631498 density = 0.769943623120
ratio = 4.685648477021 contacts = 23

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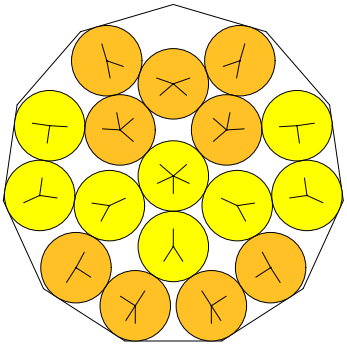
N = 17

17 circles in a hendecagon



radius = 0.205123644807 density = 0.755716184322
ratio = 4.875108381285 contacts = 35

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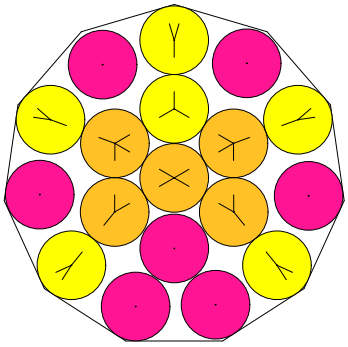
N = 18

18 circles in a hendecagon



radius = 0.199753916279 density = 0.758824706311
ratio = 5.006159671990 contacts = 23

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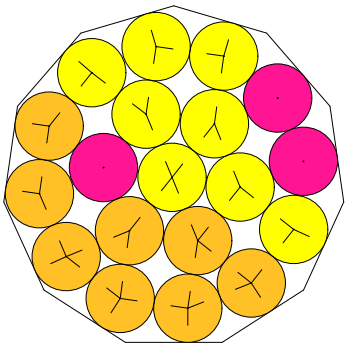
N = 19

19 circles in a hendecagon



radius = 0.198862635374 density = 0.793849789648
ratio = 5.028596740247 contacts = 32

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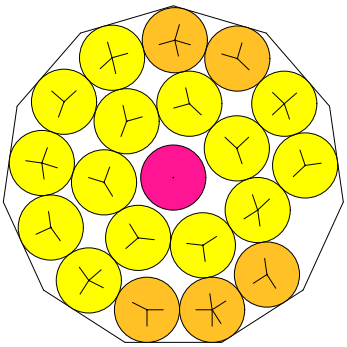
N = 20

20 circles in a hendecagon



radius = 0.189665172122 density = 0.760122392704
ratio = 5.272449278958 contacts = 39

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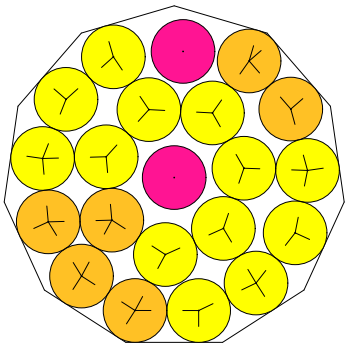
N = 21

21 circles in a hendecagon



radius = 0.185222380887 density = 0.761175097745
ratio = 5.398915591158 contacts = 39

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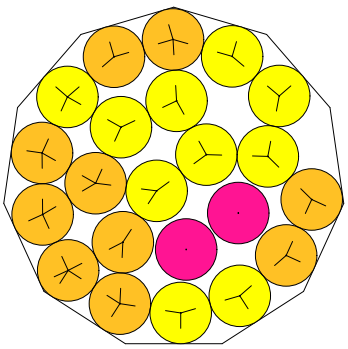
N = 22

22 circles in a hendecagon



radius = 0.179050572562 density = 0.745165022397
ratio = 5.585014254301 contacts = 41

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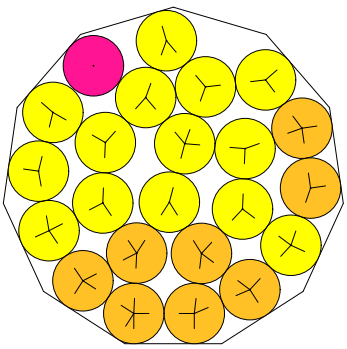
N = 23

23 circles in a hendecagon



radius = 0.176060167306 density = 0.753231386799
ratio = 5.679876460990 contacts = 45

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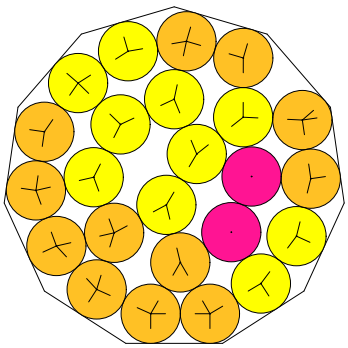
N = 24

24 circles in a hendecagon



radius = 0.172459859978 density = 0.754163747520
ratio = 5.798450724287 contacts = 45

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