





2: dodecahedra meeting face-to-face must be scaled 2 golden powers relative to one another.



3: dodecahedra meeting edge-to-edge must be either the same size or scaled 3 golden powers relative to one another.



4: no chains of 4 dodecahedra meeting edge-to-edge are allowed.

Dodecafoam

Interestingly, dodecafoam can "self-assemble". The simple 1-2-3-4 rules for fitting dodecahedra together ensure that the resulting structure is non-periodic and hierarchically structured. Local interactions cumulate and influence the arrangement of dodecahedra at all scales and all distances.

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