

The 2 nd-order tetractys contains 85 yods, where

$$
85=4^{0}+4^{1}+4^{2}+4^{3}
$$

13 yods line shared sides of adjacent sectors of the octagon, leaving 72 yods per sector. They comprise 10 corners of 10 1st-order tetractyses and 62 hexagonal yods. The octagon has $(8 \times 62=496)$ hexagonal yods, arranged in two cross pattées as $248 \circ$ and $248 \circ$. They symbolise, respectively, the 248 roots of $E_{8}$ and the 248 roots of $E_{8}{ }^{\prime}$.
$496=1^{3}+3^{3}+5^{3}+7^{3}$


The outer Tree of Life with 1st-order tetractyses as its 16 triangles contains 70 yods. They comprise 10 corners and 60 red or blue hexagonal yods. The inner Tree of Life with Type A polygons contains 524 yods. They comprise 80 corners of 941 st-order tetractyses and 444 hexagonal yods ( 222 associated with each set of 7 enfolded polygons). When the outer \& inner Trees combine, four hexagonal yods and three corners on each side pillar of the former coincide with hexagonal yods and corners in the two hexagons of the latter. The combined Trees have $[(10-6=4)+80=84]$ corners and $[(60-8=52)+444=496]$ hexagonal yods. $(52 / 2=26)$ red or blue hexagonal yods can be associated with each half of the outer Tree of Life. Each half of the combined Trees have $(\mathbf{2 6}+22=\mathbf{2 4 8})$ red or blue hexagonal yods. They symbolise the 248 roots of $E_{8}$ and the 248 roots of $E_{8}{ }^{\prime}$. This is the Tree of Life basis of $E_{8} \times E_{8}{ }^{\prime}$ heterotic superstrings.

