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The $E_8$ root system consists of 240 vectors in an 8-dimensional space. Those vectors are the vertices (corners) of an 8-dimensional object called the Gosset polytope $4_{21}$.

In the 1960s, Peter McMullen drew (by hand) a 2-dimensional representation of the Gosset polytope $4_{21}$. The image used in this brochure was computer-generated by John Stembridge, based on McMullen’s drawing. To learn more about this image, go to www.math.lsa.umich.edu/~jrs/coxplane.html
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