

The E10 diagram, symmetric polytopes and Enriques surfaces

Tuesday 19 December 2023 10:00 (50 minutes)

The affine E8 diagram parametrizes the irreducible representations of the binary icosahedral groups by McKay. The next diagram E10, or T237, parametrizes a set of symmetric polyhedra consisting of octa, dodeca, icosahedra and several zonohedra. This was observed in studying polarization types of Enriques surfaces. In this talk I will present type III degenerations of Enriques surfaces corresponding to such symmetric polytopes as many as possible.

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