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The Tomotope

The tomotope $\mathcal{T}$ is an abstract 4-polytope consisting of a tightly knit assembly of four tetrahedra and four hemioctahedra shared among just four vertices (and is so-named as a small present to Tomas Pisanski). $\mathcal{T}$ is the first polytope (convex or abstract) whose monodromy group was found *not* to be a string C-group. I will construct $\mathcal{T}$ and report on my confused understanding of its regular covers.

This is an offshoot of a collaboration with D. Pellicer and G. Williams.