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Combinatorics of the Amplituhedron

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The amplituhedron is the image of the positive Grassmannian under a map induced by a totally positive matrix. It was introduced by Arkani-Hamed and Trnka to compute scattering amplitudes in N=4 super Yang-Mills. I'll give a gentle introduction to the amplituhedron, surveying its connections to cluster algebras, matroids, and combinatorics (Eulerian numbers, Narayana numbers, etc).

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