Delzant's Theorem

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Science Building #262
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Abstract : Delzant polytopes are simple, rational and smooth convex hull in Eucilidean space with finite vertices at which they can be transformed to d-dimensional quadrants under elements of general linear group with integer coefficients. These polytopes are in one-to-one correspondence with toric manifolds up to isomorphism. In this talk, we introduce Hamiltonian torus actions and construct toric manifolds from Delzant polytopes using symplectic reduction.

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