Semi-toric geometry and stable generalized complex structures

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Abstract:

I will introduce stable generalized complex structures and study several of their properties. This includes blow-ups, connected sums, singular fibrations and their relation to semi-toric fibrations from symplectic geometry. The key object that allows us to study these structures are specific real Lie algebroids associated real codimension-two submanifolds. This talk is based on joint work with Aldo Witte and Ralph Klaasse and expands on previous work with Gualtieri.