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Geometrization of Supersymmetry Algebras

Supersymmetry algebras are special kinds of algebras that arise in the study of supersymmetric physics. M.Faux and S.J.Gates have shown that much of the structure of 1-dimensional supersymmetry algebras can be encoded in bipartite graphs with additional combinatorial structures known as *adinkras*. In this talk I will present a method for geometrizing adinkras — that is, a means of interpreting all of the structure of an adinkra in a geometrically meaningful way — as described in my recent works. After describing the construction I will spend some time explaining just how special the kinds of objects that we are deriving in this way are; this is a reflection of the supersymmetry from which we started.