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A picture of Cartan subalgebras in twisted k -graph algebras

In 2008, Renault proved that every topologically principal groupoid C^* -algebra contains a Cartan subalgebra. We recall work with Duwenig and Gillaspy that shows certain non-topologically principal twisted groupoid C^* -algebras contain Cartan subalgebras, and in the case that the groupoid is the path groupoid of a k -graph we describe certain subgroupoids that give rise to these subalgebras. This is joint work with Anna Duwenig, Elizabeth Gillaspy, Rachael Norton, and Sarah Wright.