

1163-47-842

Anna Duwenig, Elizabeth Gillaspay, Rachael Norton* (rnorton9@fitchburgstate.edu),
Sarah Reznikoff and **Sarah Wright**. *Cartan subalgebras of twisted groupoid C^* -algebras.*

Since J. Renault initiated the study of Cartan subalgebras of C^* -algebras in 1979, the theory has been advanced by many authors including A. Kumjian, X. Li, and J. Renault. In this talk we focus on groupoid C^* -algebras whose multiplication is twisted by a circle-valued 2-cocycle. We identify sufficient conditions on a subgroupoid $S \subset G$ under which the twisted C^* -algebra of S is a Cartan subalgebra of the twisted C^* -algebra of G . Time permitting, we describe (in terms of G and S) the so-called Weyl groupoid and twist that J. Renault defined in 2008, which give us a different groupoid model for our Cartan pair. (Received September 13, 2020)