

1154-46-611

Xin Li, Tron Omland and Jack Spielberg* (jack.spielberg@asu.edu). *C*-algebras of Artin-Tits monoids*. Preliminary report.

Semigroup C-algebras* have been studied intensively by Xin Li in recent years. The first example was, arguably, Coburn's theorem characterizing the Toeplitz algebra, and there followed work by Douglas, Murphy, Cuntz, Nica, etc. Crisp and Laca studied right-angled Artin monoids, and showed that they were of the same paradigm as the Cuntz algebras, namely, the situation that Nica termed *amenable*. They also noted that Artin-Tits monoids of finite type fall outside this paradigm. We consider in particular the finite type case, and describe the structure of the C^* -algebras. We find a dichotomy of sorts depending on the number of relations in the presentation of the group. (Received September 08, 2019)