## 1163-46-347 Chris Bruce\*, chris.bruce@glasgow.ac.uk. C\*-algebras of ring-theoretic origin.

C\*-algebras can be realised as operator-norm closed, self-adjoint algebras of operators on Hilbert space. They comprise one of the most important classes of operator algebras. Recently, there have been several constructions of C\*-algebras from ring theory. Indeed, out of an integral domain R together with multiplicative monoid M of non-zero elements in R, one can naturally construct several C\*-algebras. C\*-algebras arising this way provide an interesting class of operator algebras, whose structure is complicated yet sufficiently tractable. I will explain some of these constructions, and then discuss possible directions for future work (Received September 03, 2020)