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Generalised Non-Commutative Stone Dualities between Étale Groupoids and Inverse Semigroups

In recent years, étale groupoids have become an indispensable tool for constructing and analysing C^* -algebras. At the next level of abstraction, inverse semigroups can be used to construct and analyse étale groupoids. On the one hand, we have Exel's ample (i.e. totally disconnected) tight groupoid construction, while on the other we have Lawson and Kudryavtseva's non-commutative Stone duality between ample groupoids and Boolean inverse monoids. In this talk we outline our work extending these to more general non-ample groupoids. (joint work with Charles Starling)