



The Australian Mathematical Society Inc.

Mark V Lawson

has been awarded

The Mahony-Neumann-Room Prize

of the Australian Mathematical Society
at the 2017 Annual Meeting of the Society
for his authorship of the paper

A noncommutative generalization of Stone duality,

J. Aust. Math Soc. 88 (2010), 385-404.

Stone duality is the duality between Boolean rings and totally disconnected locally compact spaces that assigns to each Boolean ring the space of Boolean-ring homomorphisms into the 2-element Boolean ring, and assigns to each totally disconnected locally compact space the Boolean ring of locally-constant binary-valued functions on the space. Lawson's work establishes a powerful generalisation of this for suitable inverse semigroups and groupoids. Since inverse semigroups and groupoids show up in a vast variety of situations, including symbolic dynamics and coding, abstract algebra, operator algebras (particularly von Neumann algebras and C^* -algebras) his results have many potential applications.

President

Editor, J. Aust. Math. Soc.