

## Classification of certain inductive limit type actions on approximate interval algebras

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**Abstract.** In this paper we present a classification, up to equivariant isomorphism, of  $C^*$ -dynamical systems  $(A, \mathbb{R}, \alpha)$  arising as inductive limits of directed systems  $\{(A_n, \mathbb{R}, \alpha_n), \varphi_{nm}\}$  where each  $A_n$  is a finite direct sum of matrix algebras over the continuous functions on the unit interval and the  $\alpha_n$  is generated by an inner derivation coming from a self-adjoint element with finite spectrum.