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**DAVID KERR**, Texas A&M University, College Station, TX, USA 77843-3368

*Dynamics and rigidity in simple  $C^*$ -algebras*

The achievements of the Elliott classification program have established a striking picture of cohomological rigidity within a large class of simple nuclear  $C^*$ -algebras. I will discuss some consequences of this rigidity for the dynamics of typical automorphisms.