

# Non-traditional and Smooth Cartan subalgebras

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## Abstract

The focus of my talk will be on my work related to *Cartan subalgebras* in  $C^*$ -algebras. By the remarkable Kumjian–Renault theory, there is a dictionary between  $C^*$ -algebras with such subalgebras and particularly nice (generalized) dynamical systems. I will explain what can happen if the ‘nice’ properties are either dropped or augmented, leading to “non-traditional” Cartans on the one hand and “smooth” Cartans on the other.

This talk is based on different works joint with Gillaspy, Norton, Reznikoff, Sims, Williams, Wright, and Zimmerman.