

*The First WSU-IPM Joint Workshop on  
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(Webinar)*

## **Dynamical Criteria Towards Classifiable Transformation Group C\*-algebras**

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In this talk I will report on joint work with David Kerr regarding the structure and classification of certain transformation group C\*-algebras. It is a general important question when free minimal actions of amenable groups on compact spaces give rise to crossed product C\*-algebras that fall within the scope of Elliott's program. After some years of research where this had been partially settled for special classes of groups with methods related to noncommutative dimension theory, Kerr's notion of almost finiteness opens the door to systematically study this problem for all amenable groups. I will give an overview of these techniques and the current state-of-the-art, culminating in our result that asserts the classifiability of such crossed products if the underlying space is finite-dimensional and the group has subexponential growth.