Title: Simplicity of the Irrational Rotation Algebra

Abstract: When the integers act on the circle by rotation through an irrational angle, the orbit is a dense subset of the circle. In this talk we will show how to construct a $\text{C}^*$-algebra from this action. We will then discuss how the movement inherent in this action shows that the $\text{C}^*$-algebra so constructed is simple.