Title: Can You "Hear" the Shape of a Radial Schr\"odinger Operator?
Speaker: Ivan Ventura, Cal Poly Pomona
Date and Time: Thursday April 6th, 12:00-12:50pm
Location: 3-1616

Abstract: Inverse problems are a large class of both theoretical and applied problems that have captivated the mathematical community for over half a century. During this time numerous applications have arisen in in a variety of fields, such as medical imaging and cloaking. In the first half of this talk, I will discuss, by example, general inverse problems and how they arise in the real world. In the second half, I will focus specifically on spectral inverse problems, starting with the classic "Can you hear the shape of a drum?" problem in the case of the sphere. Finally, I will present an analogous result for semi-classical Schr\"odinger operators.