

Student
Seminar

Pi Mu Epsilon

& GAMECOCK MATH CLUB

The Geometry of Mind Reading

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The inner workings of the brain have intrigued generations of scientist and the general public alike. In recent years geometric methods have been successfully applied to describe how the brain reacts when introduced to outside stimuli. In fact, this application has seen so much success that the Nobel prize has been awarded for this work. In this talk we will see how, when given simple combinatorial data from the brain, these methods can be used to (partially) reconstruct the stimuli space. In other words, we will see how the use of geometry can read minds. In the remainder of the talk, we will discuss the most recent attempts to mathematically model this data using techniques from Algebraic Geometry.

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7:00 pm
LC 310

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