# THE BANACH-TARSKI PARADOX

Undergraduate Math Club
CORNELL UNIVERSITY


**SPEAKER**

Jason Snyder



**ABSTRACT**

The Banach-Tarski Paradox says that you can partition a solid ball in $\mathbb{R}^3$ into a finite number of pieces, and rotate and reassemble these pieces to get two copies of the original ball. In this talk, we will prove this result. Along the way, we'll talk about group actions, free groups, paradoxical decompositions, and the axiom of choice.


## MAR 27 at 4:45pm

### Malott 532 ⋆ Refreshments