Intuitionism and its Implications for Mathematics

Undergraduate Math Club
CORNELL UNIVERSITY

SPEAKER

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ZOOM LINK

https://cornell.zoom.us/j/92205813476?pwd=NUpSZXloTXcyazNtNFB1czRkRlZmZz09

ABSTRACT

L.E.J. Brouwer's intuitionism was a controversial departure from classical mathematics and has been embraced by physicists and computer scientists, but not by classical mathematicians. In the Nuprl proof development system, much research has been done using intuitionistic mathematics. I will discuss Brouwer's free choice sequences, as well as introduce homotopy theory and type theory. Finally, I will discuss how Vladimir Voevodsky's univalence axiom provides an interesting lens with which to reimagine the foundations of mathematics.

Apr 8 at 6:00pm