

TEMPLE

MATH CLUB

**Construction of Reals using
Dedekind Cuts – Antonio
Vinagre**

WHEN

**January 25, 2024
5-6 PM**

WHERE

Wachman Hall 617

In this talk, we will discuss one construction of the real numbers using Dedekind Cuts. With this construction first published in 1872 by Richard Dedekind, we will use "cuts" of the rational numbers to form a set that we will show has order, the Least Upper Bound Property, and is a field that contains the rational numbers as a subfield. We will then realize this set of cuts as the set of real numbers.

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