



# Special Colloquium

**DR. ARUNIMA RAY**  
**BRANDEIS UNIVERSITY**

## **"KNOT THEORY IN DIMENSION 3.5"**

The connected sum operation endows the set of knot concordance classes with a group structure. Satellite operations are a natural generalization of the connected sum operation, and are of interest both within and beyond knot theory. I will discuss a number of recent results about satellite operations on topological and smooth knot concordance classes, particularly winding number one satellite operations, and how they contribute to the conjecture that the concordance groups are fractal spaces. Some of the results I will discuss are joint work with Tim Cochran and/or Christopher Davis.

**Thursday, February 16<sup>th</sup>, 2017**

**Room 284, the 2nd Floor of the Surge Building**

**Tea Time @ 3:40 p.m.**

**Talk Begins @ 4:10 p.m.**

**Ends @ 5:00 p.m.**

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