

# GAUGE THEORY & TOPOLOGY SEMINAR

Genevieve Walsh (Tufts)

## **Knot commensurability and the Berge conjecture**

This talk addresses commensurability of knot complements in  $S^3$  in the generic case of knots without hidden symmetries. In particular such knots which are commensurable are cyclically commensurable, and there are at most three knot complements in such a commensurability class. Moreover if two hyperbolic knots without hidden symmetries have commensurable complements then they are fibred with the same genus and are chiral. I will also discuss close connections between commensurability of knot complements are the Berge conjecture, and give a partial classification of commensurable knot complements in  $S^3$ . This is joint work with M. Boileau, S. Boyer, and R. Cebanu.

**Date:** Friday, October 8

**Time:** 3:30-4:30

**Location:** Harvard Mathematics Department, Science Center 507

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<http://math.harvard.edu/~acotton/seminar.html>