

Mathematics Department Colloquium

Organizer: Nicolai Reshetikhin

Thursday, 4:10–5:00pm, 60 Evans

Sept. 6 **Jacob A. Rasmussen**, Princeton University

Knot homologies

I'll describe a class of knot invariants which generalize the classical knot polynomials, such as the Alexander and Jones polynomials. These “knot homologies” appear in a broad range of contexts, including gauge theory (Heegaard Floer homology) and representation theory (Khovanov homology). I'll try to explain why they are interesting to topologists, and a bit about their structure and the relations between them.