

## ***TOPOLOGY SEMINAR***

**Guest Speaker: Filip Misev**

**University of Regensburg**

**Date:** Tuesday, February 28, 2023

**Time:** 2:30 PM

**Location:** 258 Hurley Hall

**Zoom Link:** NA



***Lecture Title:***

**Ribbon cobordism between knots and 3-manifolds**

***Abstract***

A ribbon cobordism between 3-manifolds is a cobordism which can be built without 3-handles. Ribbon cobordisms arise in the context of contact geometry; the knot theory of algebraic curves; and Fox's slice-ribbon question. I will briefly recall their role in low-dimensional topology. Then, I will present the following result, joint with Stefan Friedl and Raphael Zentner, and building on recent work of Agol: Rational homology ribbon cobordism is a partial order within the class of irreducible 3-manifolds.