Colloquium

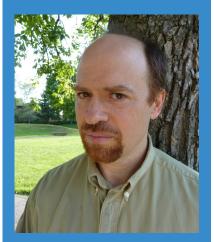## Dr. Dani Wise

Professor of Mathematics

McGill University

Friday, May 7th, 2021 @ 3:00pm

Online via Microsoft Teams

Dr. Dani Wise

The cubical route to understanding groups

Cube complexes have come to play an increasingly central role within geometric group theory, as their connection to right-angled Artin groups provides a powerful combinatorial bridge between geometry and algebra. This zoomy talk will introduce nonpositively curved cube complexes, and then describe some of the developments that culminated in the resolution of the virtual Haken conjecture for 3-manifolds, and simultaneously dramatically extended our understanding of many infinite groups.

UW-Milwaukee Department of Mathematical Sciences

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