COLLOQUIUM

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An Approach to Knot Theory via Configuration Spaces
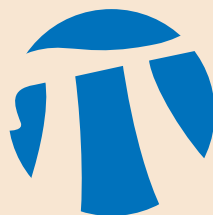
Mathematics and Statistics

Date: Friday March 22, 2019
Time: 3:30 - 4:30 PM
Room: CL 305

Abstract: We approach the embedding space of knots by examining configurations of finite subsets of S^1 and $\mathbb{R}^3$. In the case of configurations of two point subsets, one can obtain the classic invariant called the *linking number*. Such a procedure can be generalized using the notion of *stratified spaces*. The goal of this talk is to explain this approach to knot theory and show how the linking number can be recovered from this more general procedure.

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