

Topology Seminar

Ismar Volic

of Wellesley College will be speaking on

Homotopy-theoretic methods in the study of spaces of knots and links

on April 7 at 4:30 in
MIT Room 2-131

I will survey the ways in which some homotopy-theoretic methods, manifold calculus of functors main among them, have in recent years been used for extracting information about the topology of spaces of knots and links. Cosimplicial and operadic models for these spaces will also be featured. I will also mention with some recent results about spaces of homotopy string links and in particular about how one can use functor calculus in combination with configuration space integrals to extract information about Milnor invariants as well as derive higher-order asymptotic invariants of vector fields.