



Speaker: Konstantin Wernli
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Friday, January 26, 2018

12:30 PM

125 Hayes-Healy Hall

Title: Perturbative Chern-Simons invariants from BV-BFV formalism

Abstract:

After a (very) brief review of perturbative Chern-Simons invariants of 3-manifolds, I will explain how to compute these invariants using the BV-BFV formalism developed by Cattaneo, Mnev and Reshetikhin for gauge theories on manifolds with boundary, and present some recent results of example computations for the Theta invariant - i.e. the lowest order perturbative Chern-Simons invariant - on lens spaces. I will comment on the role of framings in these invariants and on its appearance in the computations.