ABSTRACT

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In this talk we will explore joint work with Thang Le on the stated skein modules of marked 3-manifolds. These generalize ordinary skein modules by allowing for not only embedded links, but also stated tangles which meet boundary markings. Our main goal will be to define and look at the properties of the Chebyshev-Frobenius homomorphism of stated skein modules specialized at roots of unity. We will finish off by discussing the role of the Chebyshev-Frobenius homomorphism in some conceptual frameworks for stated skein modules.