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Adam M Lowrance* (adlowrance@vassar.edu). *Invariants of Turaev genus one links.*

The Turaev surface of a link diagram is an unknotted surface in S^3 constructed from a cobordism between the all- A and all- B Kauffman states of the diagram. The Turaev genus of a link is the minimum genus of the Turaev surface of any diagram of the link. The Turaev genus of a link is zero if and only if it is alternating, and so Turaev genus one links are nearly alternating in some sense. In this talk, we discuss the signature, Jones polynomial, and Khovanov homology of Turaev genus one links. We also compare Turaev genus one links, almost alternating links, and semi-adequate links. (Received January 11, 2019)