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Cody Armond and **Adam M Lowrance*** (adlowrance@vassar.edu). *Turaev genus and alternating decompositions of link diagrams*. Preliminary report.

We present an algorithm for computing the genus of the Turaev surface of a link diagram in terms of its decomposition into alternating regions. Consequently, we obtain a classification of Turaev genus one links. (Received January 10, 2015)