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Susan M. Abernathy* (susan.abernathy@angelo.edu) and **Patrick M. Gilmer** (gilmer@math.lsu.edu). *Even and odd Kauffman bracket ideals for genus-1 tangles*. Preliminary report.

A genus-1 tangle is a 1-manifold with two boundary components properly embedded in the solid torus. A genus-1 tangle \mathcal{G} embeds in a link L if we can complete \mathcal{G} to L via a 1-manifold in the complement of the solid torus containing \mathcal{G} . A natural question to ask is: given a tangle \mathcal{G} and a link L , how can we tell if \mathcal{G} embeds in L ? We obtain an obstruction to tangle embedding by defining even and odd versions of the Kauffman bracket ideal. We also give an example of a genus-1 tangle with trivial Kauffman bracket ideal which has non-trivial even and odd Kauffman bracket ideals. (Received September 15, 2014)