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Oliver Dasbach and **Adam Lowrance*** (adlowrance@vassar.edu). *Signature and alternating tangle decompositions*. Preliminary report.

Alternating links play an important role in knot theory and 3-manifold geometry and topology. Link invariants are often easier to compute and take on special forms for alternating links. The alternating tangle decomposition of a link diagram is a decomposition of the diagram into its maximally alternating regions. In this talk, we discuss the relationship between the signature of a link and its alternating tangle decomposition. (Received September 10, 2015)