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Nicolas Petit*, Boston College, Chestnut Hill, MA 02467. *The Multi-variable Affine Index Polynomial for tangles*. Preliminary report.

We will discuss our recent generalization of the Affine Index Polynomial to links and tangles. After introducing the invariant for links, we will discuss how the notion naturally extends to tangles, and show that it is compatible with tangle addition. We will conclude with some questions about the invariant we're currently investigating. (Received August 27, 2020)