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MI 48854. *Jones diameter and crossing number of knots.*

It has long been known that the quadratic term in the degree of the colored Jones polynomial of a knot is bounded above in terms of the crossing number of the knot. In joint work with Christine Lee (U. South Alabama) we show that this bound is sharp if and only if the knot is adequate. We will briefly discuss this result and how it can be used to determine the crossing numbers of broad families of prime satellite knots (Received September 14, 2021)