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Justin Murray* (jmurr24@lsu.edu) and **Dan Rutherford**. *Colored Ruling Polynomials and the Colored Kauffman Polynomial.*

For any Legendrian knot K in \mathbb{R}^3 with its standard contact structure, Rutherford showed that the 1-graded (respectively 2-graded) ruling polynomial of K arise as a specialization of the two variable Kauffman (respectively HOMFLY-PT) polynomial. Recently, Levenson and Rutherford extended the definition of m -graded ruling polynomials to m -graded *colored* ruling polynomials, *except when* $m = 1$, in a way that counts certain representations of the Legendrian contact homology DGA. Moreover, when $m = 2$, they show the colored ruling polynomial arises as specialization of the colored HOMFLY-PT polynomial. For technical reasons, the “correct” definition of the 1-graded colored ruling polynomial (i.e. the one that recovers a count of similar representations) requires a slightly different definition than its other graded versions. In this talk, we will define the 1-graded colored ruling polynomial and illustrate its relationship to the colored Kauffman polynomial. This is joint work with Dan Rutherford. (Received September 18, 2021)