1145-57-2119 **Caitlin Leverson*** (`leverson@math.gatech.edu`) and **Dan Rutherford**. *DGA Representations, Ruling Polynomials, and the Colored HOMFLY-PT Polynomial.*

Given a pattern braid $\beta \in J^1(S^1)$, to any Legendrian knot Λ in $\mathbb{R}^3$ with the standard contact structure, we can associate the Legendrian satellite knot $S(\Lambda, \beta)$. We will discuss the relationship between counts of augmentations of the Chekanov-Eliashberg differential graded algebra of $S(\Lambda, \beta)$ and counts of certain representations of the algebra of Λ. We will then define an m-graded n-colored ruling polynomial from the m-graded ruling polynomial, analogously to how the n-colored HOMFLY-PT polynomial is defined from the HOMFLY-PT polynomial, and extend results of the second author, to show that the 2-graded n-colored ruling polynomial appears as a specialization of the n-colored HOMFLY-PT polynomial. (Received September 24, 2018)