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([martha.yip@uky.edu](mailto:martha.yip@uky.edu)). *Chromatic symmetric homology for graphs: some new developments.*

For any graph  $G$  with  $n$  vertices, Stanley defined the chromatic symmetric function  $X_G(\mathbf{x})$ , which is a multivariable lift of the chromatic polynomial  $\chi_G(x)$ . The symmetric function  $X_G$  can be further lifted to a homological setting involving graded  $\mathfrak{S}_n$ -modules so that its bigraded Frobenius character recovers  $X_G$ .

In this talk, we discuss some new results regarding the strength of the chromatic symmetric homology of a graph, and state some conjectures regarding torsion in the homology. This is based on joint work with Chandler, Sazdanovic, and Stella. (Received January 07, 2020)