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Colleen Delaney* (cdelaney@math.ucsb.edu), **Parsa Bonderson**, **César Galindo**, **Eric C. Rowell**, **Alan Tran** and **Zhenghan Wang**. *A computational approach to link invariants of modular tensor categories*. Preliminary report.

For many years, modular tensor categories were believed to be distinguished by their so-called modular data, i.e., their S and T matrices. Recent work by Mignard and Schauenberg provides examples showing this is not the case. A natural question then is whether there are better invariants that can distinguish modular tensor categories. We discuss a link invariant that can be calculated with the help of computer algebra software and has the potential to outperform modular data in this respect. (Received January 21, 2018)