1163-18-1262 Eric Carson ROwell* (rowell@math.tamu.edu), Mathematics Department, Texas A&M University, College Station, TX 77843, and Colleen Delaney, Cesar Galindo, Julia Plavnik and Qing Zhang. *Ribbon zesting of braided fusion categories.*

I will describe a construction of new fusion categories from a given G-graded braided fusion category known as zesting. Zesting fits into the general theory of G-graded extensions and so are subject to the cohomological yin and yang of obstructions and parameterization torsors. On the other hand, zesting has several computational advantages. To name a few: the fusion rules are immediately available, we may easily explore braiding and pivotal structures, and when the resulting category is modular the data can be expressed succinctly in terms of the original data. These ideas will be illustrated with examples. See https://arxiv.org/abs/2005.05544. (Received September 15, 2020)