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Henry J Tucker*, UCSD, San Diego, CA 92093. *Modular subcategories of Drinfel'd centers of quadratic categories and their associated modular data.* Preliminary report.

Modular categories are braided tensor categories with non-degenerate braiding. From this data we can obtain the S and T matrices, the so-called modular data. It is known that the modular data for a pointed modular category (that is, those with all objects invertible under the tensor product) is given by the Weil representation associated to a bicharacter on the abelian group formed by the objects. It is conjectured that the modular data of the Drinfel'd centers for certain quadratic tensor categories (which are in some sense close to pointed categories) are given by a generalization of this representation. We will discuss some important examples of modular data exhibiting this phenomenon, and we will present preliminary work toward understanding these Drinfel'd centers when they factorize as a product of a pointed category and some other modular category. (Received February 28, 2017)