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Representations of $SL(2, \mathbb{Z}/n\mathbb{Z})$ and Applications to Modular Categories. Preliminary report.

In this talk, we describe the irreducible representations of the groups $SL(2, \mathbb{Z}/n\mathbb{Z})$ and how all such representations may be constructed as submodules of quadratic modules. We also discuss properties of such representations that are relevant to the study and classification of modular categories. (Received January 18, 2021)