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Elaborating on the Unrolled Quantum Group of sl(2). Preliminary report.

In this talk we will be expanding on the representation theory of the unrolled quantum group  $\overline{U_q^H}(\mathfrak{sl}_2)$  when  $q = e^{\frac{2\pi i}{p}}$ , p > 2. We will discuss how  $\overline{U_q^H}(\mathfrak{sl}_2)$ -mod forms a ribbon category, properties of the center of  $\overline{U_q^H}(\mathfrak{sl}_2)$ , how the simple and projective modules form a subcategory, the existence and properties of logarithmic modules, and results that have applications to topological quantum field theory (TQFT). (Received August 15, 2019)