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Matthew D Welz* (mwelz@uwsp.edu). *2-Fusion Systems with Standard Components of type $PSL_2(q)$ or $SL_2(q)$.*

We discuss problems in the area of fusion systems which are designed to mimic, simplify, and generalize parts of the Classification of Finite Simple Groups. In the Classification, the simple groups are split between those of *characteristic 2-type* and those of *component type* (which, save a few exceptions, possess a *standard* component). Aschbacher recently laid out a major program of research: work toward a classification of fusion systems of “component type” in order to establish a new proof of the Classification for groups of component type. In this talk we consider two cases: where a 2-fusion system contains subgroups and fusion maps that arise in the Classification with standard components of type $SL_2(q)$ and $PSL_2(q)$. (Received August 23, 2013)