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Andrew Chermak* (chermak@math.ksu.edu). *Gluing Problems*.

The existence and uniqueness of a linking system for a given saturated fusion system can be viewed as a "gluing problem". Also, there is a gluing problem for 2-cocycles defined locally and "compatibly" on a saturated fusion system, and which, if solved, yields a reformulation (due to Linkelmann) of the Alperin weight conjecture. We present progress towards a solution of the second of these gluing problems, based on the solution of the first. The work is joint with Jesper Grodal and Ergun Yalcin. (Received August 27, 2013)