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Richard Burstein* (richard3@math.berkeley.edu), University of California, Berkeley, 970 Evans Hall #3840, Berkeley, CA 94720-3840. *Subfactors Obtained From Hadamard Matrices.*

A hyperfinite II_1 subfactor may be obtained from a commuting square via iteration of the basic construction. A generalised Hadamard matrix is a unitary matrix all of whose entries have the same complex modulus. Such a matrix serves as the biunitary connection for a commuting square, giving rise to a Hadamard subfactor. While the standard invariant of a Hadamard subfactor may be computed to arbitrary depth in finite time, the classification of such subfactors remains generally intractable.

In this talk I will discuss a particular class of Hadamard subfactors arising from groups. I will show that they may be described in terms of the construction $M^G \subset M \rtimes H$ analyzed in a 1996 paper of Bisch and Haagerup. Using the methods of this paper, I will show how to compute the principal graphs of these subfactors, and provide a complete classification up to subfactor isomorphism in the index-4 case. (Received March 11, 2008)