1035-46-670   **Alan D Wiggins*** (`alan.d.wiggins@vanderbilt.edu`), Department of Mathematics, 1326 Stevenson Center, Vanderbilt University, Nashville, TN 37240. *Normalizers of Subalgebras of II$_1$ Factors.*

If M is a II$_1$ factor and B is a subalgebra of M, we denote by $\mathcal{N}_M(B)$ the group of all unitaries $u \in M$ with $uBu^* = B$. If $B_1 \subseteq M_1$ and $B_2 \subseteq M_2$ are two such inclusions, we examine when $\mathcal{N}_{M_1}(B_1)'' \overline{\otimes} \mathcal{N}_{M_2}(B_2) = \mathcal{N}_{M_1 \overline{\otimes} M_2}(B_1 \overline{\otimes} B_2)''$. For irreducible subfactors and masas of M, this is indeed the case, though the analysis for infinite index subfactors involves consideration of unitaries in M which merely conjugate B into itself. In general, it need not be true that the two algebras are equal. We examine what can be said for subalgebras that contain their own relative commutant. (Received September 13, 2007)

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