

1074-46-233

Alan Wiggins* (adwiggin@umd.umich.edu), Department of Mathematics and Statistics, 2014 CASL Building, 4901 Evergreen Road, Dearborn, MI 48128. *Further Results on Strong Singularity for Subfactors*. Preliminary report.

The strong-singularity constant α for an inclusion $N \subset M$ of II_1 factors is a number between 0 and 1 that measures how “close” N is to its conjugates by unitaries in M relative to how close the unitaries are to N . It is nonzero if and only if N is singular, i.e., has no nontrivial normalizing unitaries, in M . In work with Pinhas Grossman, we exhibited a pair $N \subset M$ such that $0 < \alpha < 1$. We shall discuss further refinements for global (lower) bounds on the strong singularity constant, more examples of inclusions with $0 < \alpha < 1$, and the situation in infinite Jones index. This is joint with Pinhas Grossman. (Received August 22, 2011)