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Youngju Kim* (ykim@gc.cuny.edu), Mathematics Program, The Graduate Center, CUNY, 365 Fifth Ave, New York, NY 10016. *On Quasiconformal Stability in Hyperbolic 4-Space.*

An n -dimensional Mobius group is said to be quasiconformally stable if its sufficiently small deformations in $Isom_+(H_n)$, the group of orientation preserving isometries acting on hyperbolic n -space are all quasiconformally conjugate to it. Our main result is that there is a Mobius group acting on hyperbolic 4-space which is geometrically finite, but is not quasiconformally stable. This is in contrast to lower dimensions, where any geometrically finite Mobius group is quasiconformally stable. (Received January 15, 2008)