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Nathaniel Thiem*, Campus Box 395, Boulder, CO 80309, and **C R Vinroot**. *Explicit Shintani lifting from finite unitary groups to general linear groups*. Preliminary report.

Shintani lifting gives a mechanism for starting with irreducible characters of a finite algebraic group G defined over a field F , and obtaining irreducible characters in the algebraic group over some extension E of F . While the correspondence is well-known, it turns out to be difficult to actually compute these lifts, or even show that they exist in the first place. This talk describes a pleasing combinatorial construction for lifts from the finite unitary group to the finite general linear group, and some applications of this correspondence. (Received September 09, 2010)