

1112-16-65

Uma N Iyer and **Earl J Taft*** (etaft@math.rutgers.edu), Department of Mathematics,
Rutgers University, Piscataway, NJ 08854. *Is there a left quantum group containing $U_q(sl(2))$?*

S. Rodriguez-Romo and E. J. Taft constructed a left quantum group S' (i.e., there is a left antipode which is not a right antipode) modeled after $S = SL_q(2)$ [J. Algebra 285(2005), 154-160]. S is a homomorphic image of S' . Taking continuous duals, S'^o contains S^o , which contains $U_q(sl(2))$. Thus S'^o appears to be a left quantum group containing $U_q(sl(2))$. However, we show that $S'^o = S^o$, and is thus a (two-sided) quantum group. The title question remains open. (Received July 14, 2015)