VOLUME 76, NUMBER 11 PHYSICAL REVIEW LETTERS 11 March 1996 **Generation of Nonclassical Motional States of a Trapped Atom** D. M. Meekhof, C. Monroe, B. E. King, W. M. Itano, and D. J. Wineland Time and Frequency Division, National Institute of Standards and Technology, Boulder, Colorado 80303-3328 (Received 11 October 1995)