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Margret Soley Jonsdottir* (jonsdott@math.colostate.edu), Colorado State University,
Department of Mathematics, 101 Weber Building, Fort Collins, CO 80523-1874. *Computing
automorphism groups of general linear groups.*

In this talk I will discuss a method for computing the automorphism groups of general linear groups over finite fields. I will run an automorphism group algorithm by Cannon and Holt generically on $GL(2,q)$ and give explicit generators for the automorphism groups of $GL(2,q)$. (Received January 09, 2007)