1077-37-1189   **Andrey Gogolev**, **Boris Kalinin*** (`kalinin@jaguar1.usouthal.edu`) and **Victoria Sadovskaya**. *Local rigidity for Anosov automorphisms.*

We consider an irreducible Anosov automorphism L of a torus $\mathbb{T}^d$ such that no three eigenvalues have the same modulus. We prove that L is locally rigid, that is, L is smoothly conjugate to any C^1-small perturbation f for which the derivatives of the return maps at the periodic points are conjugate to those of L. We show that toral automorphisms satisfying the above assumptions are generic in $SL(d, \mathbb{Z})$. (Received September 17, 2011)