

**Meeting:** 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-11-1222      **Alexandru Tupan\*** (tupan@math.msu.edu), Department of Mathematics, Michigan State University, East Lansing, MI 48824. *On the dual representation of a representation of  $GL(n, F)$ .*

Let  $F$  be a non-Archimedean field and let  $\pi$  be an irreducible admissible representation of  $GL(n, F)$ . A well known theorem states that the dual representation of  $\pi$  can be described via the formula  $g \mapsto \pi({}^T g^{-1})$ . We give a new and short proof of this statement (Received October 04, 2004)