## Abstract Submitted for the DNP10 Meeting of The American Physical Society

Parity violation in  $n+^3He \to ^3H+p$  reaction: resonance approach VLADIMIR GUDKOV, University of South Carolina — The method based on microscopic theory of nuclear reactions has been applied for analysis of parity violating effects in a few- body systems. Different parity violating and parity conserving asymmetries and their dependence on neutron energy have been estimated for  $n+^3He \to ^3H+p$  reaction. The estimated effects are in a good agreement with available exact calculations.

<sup>1</sup>This work was supported by the DOE grants no. DE-FG02-09ER41621.

Vladimir Gudkov University of South Carolina

Date submitted: 10 Aug 2010 Electronic form version 1.4