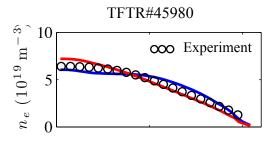
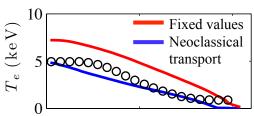
## The Development of SOL Transport Model for Integrate Core-SOL Simulation of L-mode Plasma

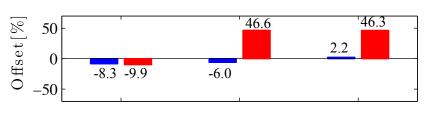
A. Wisitsoraasak<sup>1\*</sup>, and T. Onjun<sup>2</sup>

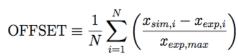
Department of Physics, King Mongkut's University of Technology Thonburi, Thailand Sirindhorn International Institute of Technology, Thammasat University, Phathumthani, Thailand Email: apiwat.wis@kmutt.ac.th

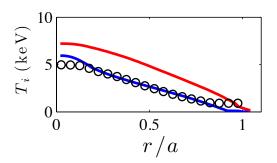


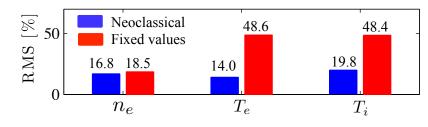
- Transport of the core plasma is solved using anomalous transport (MMM95) and neoclassical theory (NCLASS)
- Two models of SOL transport are determined using (a) a fixed constant, (b) the neoclassical transport.
- Simulation results are compared with 38 L-mode discharges (TFTR, DIII-D, and JET) and statistical analysis is performed
- SOL transport modeled by the neoclassical theory yields better agreement with the experimental data.











RMS 
$$\equiv \sqrt{\frac{1}{N} \sum_{i=1}^{N} \left( \frac{x_{sim,i} - x_{exp,i}}{x_{exp,max}} \right)^2} \times 100$$