# Characterization of KOI-94 system with photometric light curves and transit timing variation analysis: implication for the planet-planet eclipse 

Kento Masuda, ${ }^{1}$ Teruyuki Hirano, ${ }^{2}$ Atsushi Taruya, ${ }^{1,3}$ Makiko Nagasawa, ${ }^{2}$ \& Yasushi Suto ${ }^{1,3,4}$

${ }^{1}$ Department of Physics, The University of Tokyo ${ }^{2}$ Department of Earth and Planetary Sciences, Tokyo Institute of Technology
${ }^{3}$ Research center for the Early Universe, Graduate School of Science, The University of Tokyo ${ }^{4}$ Department of Astrophysical Sciences, Princeton University
E-mail: masuda@utap.phys.s.u-tokyo.ac.jp




