## On emergence and persistency of unequal exchange free trade equilibria in the pre-industrial capitalist world economy

Naoki Yoshihara\*and Soh Kaneko<sup>†</sup> January 22, 2016

This paper analyzes the unequal exchange of labor (UE) in the context of international exchange. A dynamic international trade model of infinite-horizon subsistence economies with a Leontief production technology is presented. Focusing on a certain type of pricing rules being non-constant, we show the existence and a characterization of equilibria involving UE. Moreover, the existence result also enables us to confirm that equilibria under the pricing rules generate the persistency of exploitation.

JEL classification: D51; D63; D91.

**Keywords:** Unequal exchange of labor; Subsistence international economies; Non-constant prices.

<sup>\*</sup>School of Management, Kochi University of Technology, Tosayamada, Kami-city, Kochi 782-8502, Japan; and Department of Economics, University of Massachusetts, Amherst, MA, USA, E-mail: n\_yoshihara\_1967@yahoo.co.jp

<sup>†</sup>Faculty of Economics, Keio University, Mita 2-15-45, Minato-ku, Tokyo 108-8345, Japan. Phone: (81)-3-5427-1574. Fax: (81)-3-5427-1578. E-mail: skaneko@keio.jp