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AUTHOR OR EDITOR

[ZULETA HERNANDO, ALBERICO SANTIAGO](#)

AUTHORS AND/OR EDITORS

[Alberico, Santiago](#)

Publication Date:

Wednesday, 31 January 2007

We study the effects of changing labor supply on total output in a setting of factor saving innovations where the choice of technologies depends on the relative abundance of factors. The sign and the size of

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the effect of a technological change on output depend on the relative abundance of factors. Therefore, an exogenous change in the supply of one (or more) factors can have different effects depending on the initial conditions.