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論題：Technology Transfer, Emissions Trading, and International Trade (with Jota Ishikawa and Kazuharu Kiyono)

報告言語：英語

要旨：We explore the effects of international technology transfers on global warming and

welfare in a two-country, two-good, general equilibrium model, having both Ricardian

and Heckscher-Ohlin features. A home country with a smaller per-capita emissions quota

transfers its superior technologies to a foreign country with a larger per-capita emissions

quota. The home country benefits from technology transfer in its import-competing and

more emissions-intensive sector due to its terms of trade improvement and an reduction

in global emissions. Technology transfer in home country’s export and less emissions-

intensive sector leads to an ambiguous effect on the welfare of the home country but results

in a larger reduction in global emissions as compared to that in its import-competing

sector. When trade in emissions as well as goods is allowed between the countries, the

effects of the home country’s technology transfers can be totally different from those under

free commodity trade only. While technology transfer in the less-emissions intensive sector

can reduce global emissions, that in the more emissions-intensive sector may not do so. In

addition, the home country may lose from the technology transfer in its import-competing

and more emissions-intensive sector due to a deterioration in its terms of trade.