

Commitment-Revision Games

SHUNYA NODA

Graduate School of Economics, University of Tokyo

shunya.noda@gmail.com

MASAYUKI YAGASAKI

Graduate School of Economics, University of Tokyo

yagamasajp@gmail.com

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Abstract

We analyze a situation where agents commit smaller action sets. In the commitment stage, each agent reduces his action set and this procedure is randomly terminated. In the action stage, each agent simultaneously choose his finalized action from his reduced action set determined in the commitment stage. In this situation, agents can develop cooperation step by step but it is impossible to achieve full efficiency from the beginning period. As an application, this model gives us clear intuition for nuclear disarmament problems.