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Adib Bagh* (abagh@ucdavis.edu), Gatton school of business, Lexington, KY 40502. *Existence of Nash Equilibrium in Open-Loop Dynamic Games.*

We establish the existence of Nash equilibrium in a large class of open-loop dynamic games. We illustrate why Standard fixed point arguments usually fail for such game. We then show that such games are better reply secure, and therefore by a theorem by P. Reny, have a Nash equilibrium. (Received January 21, 2010)