

Equilibrium via Equilibrium *

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Abstract

The concern of this paper is regarding to a kind of misleading quasi concavity imposed, by Arrow and Debreu (1954), on utility functions representing the consumers' preferences. We prove that under a weaker topological condition, called upper closedness, than the usual ones¹ that misleading concept lies into of class of the quasi concave ones. We generalize the concept of pseudo concavity of the literature and prove that, under upper closedness, Arrow-Debreu's agents² are nothing but pseudo-concave agents (those having preferences represented by pseudo concave utility functions). Under a certain nonsatiation condition and using "The Equilibrium Problem Theory" introduced by Blum and Oettli (1994), we prove existence of equilibrium of an unbounded economy populated by pseudo-concave agents.

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¹Such as continuity or upper semi-continuity.

²Those ones whose utility functions satisfying their condition imposed in 1954.