The NLL Axiom and Integrability Theory

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Abstract

This study presents a new axiom of revealed preference theory, which is named the NLL axiom, and shows that for a surjective and smooth demand function f, the following three statements are equivalent: 1)f corresponds with a continuous preference, 2)f satisfies the strong axiom and the NLL axiom, 3)f satisfies the NLL axiom and the Slutsky matrix of f is negative semi-definite and symmetric.

Keywords: demand function, NLL axiom, integrability theory, revealed preference.

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