

Rosen games on Banach spaces: Quasi-convex case

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We study the generalized Nash game proposed by Rosen, which involves strategy sets coupled across players through a shared constraint. We demonstrate a reduction to a classical game, allowing Rosen's result to be deduced from the work of Arrow and Debreu. Additionally, we establish an existence result under the quasi-convexity assumption in Banach spaces. New existence results are also provided for the non- compact case under coerciveness conditions. Finally, an abstract economy is considered as an application.

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