
We introduce a convexity structure using L*-operators. The induced class of L*-spaces generalizes both the class of simplicial spaces introduced by Kulpa and the class of L-spaces introduced by Ben-El-Mechaiekh, Chebbi, Florenzano, and Llinares, which they modelled on G-structures of Park and Kim. It is a proper generalization for we show that a certain Souslin line is neither a simplicial space nor an L-space. The main result of this paper is a theorem called the Theorem on Signatures. It encompasses a number of theorems that deal with fixed points of families of functions. We derive from it the existence of Nash equilibrium points on the product of L*-spaces. We also derive the existence of symmetric equilibrium points for games played on compact Hausdorff L*-spaces. (Received September 04, 2007)