

87. Zvi Artstein, **Projections on convex sets in the relaxed limit.** Set-Valued Analysis 9 (2001), 13-34.

Abstract. The paper establishes the continuity of the best approximation, or the projection, of a function in L_p for $p \in [1, \infty)$, on a closed convex set in the space, when the set varies and converges to a limit set in the Young-measure relaxation of the space. To this end a strong-type convergence and a convexity structure are identified on the space of Young measures. The appropriate convergence of sets with respect to which the continuity holds is the Mosco-convergence of sets associated with the strong-type convergence of functions.

For a copy of this paper send a request to zvi.artstein@weizmann.ac.il.