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**A characterization of strong  $\mathcal{Q}$ -concave spaces.** (English) Zbl 1465.52006  
J. Nonlinear Convex Anal. 21, No. 12, 2771-2781 (2020).

Summary: The concepts of strong  $\mathcal{Q}$ -concave structures and strong  $\mathcal{Q}$ -interior operators are proposed on quantale-valued setting. It is shown that the category of strong  $\mathcal{Q}$ -concave spaces is isomorphic to that of strong  $\mathcal{Q}$ -interior spaces.

**MSC:**

[52A01](#) Axiomatic and generalized convexity

[54A20](#) Convergence in general topology (sequences, filters, limits, convergence spaces, nets, etc.)

[06A15](#) Galois correspondences, closure operators (in relation to ordered sets)

**Keywords:**

fuzzy inclusion order; strong  $\mathcal{Q}$ -concavity; strong  $\mathcal{Q}$ -interior operator; fuzzy convexity; fuzzy concavity

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