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Algebras for the capacity monads and its submonads

Abstract: It is known (Świrszcz, 1974) that algebras for the probability measure monad are exactly convex compacta in locally convex vector topological space. It was also proved by Radul (1990) that algebras for the inclusion hyperspace monad are compact Lawson lattices. We will prove that algebras for the capacity monad are idempotent convex compact subsets in locally convex idempotent semimodules.