

Wolfgang Adamski

On the extremality of regular extensions of contents and measures

Comment.Math.Univ.Carolinae 36,2 (1995) 213-218.

Abstract: Let \mathcal{A} be an algebra and \mathcal{K} a lattice of subsets of a set X . We show that every content on \mathcal{A} that can be approximated by \mathcal{K} in the sense of Marczewski has an extremal extension to a \mathcal{K} -regular content on the algebra generated by \mathcal{A} and \mathcal{K} . Under an additional assumption, we can also prove the existence of extremal regular measure extensions.

Keywords: regular content, lattice, semicompact, sequentially dominated

AMS Subject Classification: 28A12