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On small measures on Boolean algebras and compact spaces

ABSTRACT. By a 'small' measure on an algebra $\mathfrak{A}$ we mean a probability finitely additive function $\mathfrak{A} \to [0, 1]$ which can be, in some sense, approximated by a countable subalgebra of $\mathfrak{A}$. We going to present a short survey of results and problems related to

(i) several classes of Boolean algebras (and corresponding classes of compacta) admitting only small measures;

(ii) the natural interplay between 'smallness' of measures and topological properties of compact spaces of the form $P(\mathfrak{A})$ (of all probability measures on a given Boolean algebra $\mathfrak{A}$).