

LSAA: Seminars

Valuations on Banach Lattices

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Time: 30th of April, at 11:30 p.m. **Place:** Sala Gris 3 (ICMAT)

Valuations on convex bodies first appeared as a solution to Hilbert's Third Problem and have proved to be a useful tool in convex geometry. In particular, the characterization of valuations has shown a good deal of structure in the space of valuations. Lately, many authors have proposed different valuations on different structures, including Banach lattices. We say that $\phi : X \rightarrow \mathbb{R}$ is a valuation if

$$\phi(x \wedge y) + \phi(x \vee y) = \phi(x) + \phi(y).$$

In this talk, we will introduce valuations on Banach Lattices and will give some results characterizing them when X is a σ -Dedekind complete Banach lattice and will talk about some integral representations.
