

WEAKLY COMPACTLY GENERATED BANACH LATTICES

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JOINT WORK WITH

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ABSTRACT. We study the different ways in which a weakly compact set can generate a Banach lattice. Among other things, it is shown that in an order continuous Banach lattice X , the existence of a weakly compact set $K \subset X$ such that X coincides with the band generated by K , implies that X is WCG. Joint work with A. Avilés, A.J. Guirao, S. Lajara and J. Rodríguez.