

COMPATIBILITY OF GAUGES AND POSITIVE CONES ON ALGEBRAS WITH INVOLUTION.

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After briefly presenting how to define, on algebras with involution, objects extending valuations (“gauges” introduced by Tignol and Wadsworth) and orderings (“positive cones”, introduced by us), I will present in more detail how they are linked in ways that are very similar to the classical links between orderings and valuations on fields, and (time permitting) will attempt to give the ideas of some of the proofs and to point out some of the differences from the commutative case.

This is joint work with Thomas Unger