ORTHOGONALITY AND REGULARITY PRESERVING MAPS

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Abstract. In this talk we survey some recent results on orthogonality and regularity preserving maps from a unital C*-algebra with non-zero socle. We show that every biorthogonality preserving surjective linear map from a unital C*-algebra having essential socle is automatically bounded an a Jordan *-isomorphism multiplied by an invertible element. We apply the techniques on orthogonality preserving maps on C*-algebras with large socle in order to determine the sutructure of strongly Moore-Penrose invertibility linear preservers.

Date: June, 2013, maria.burgos@uca.es.