

**ON TOPOLOGICAL ALGEBRAS:  
SEMIDIRECT PRODUCTS AND REPRESENTABILITY OF ACTIONS**

MARIA MANUEL CLEMENTINO

In this talk we will present an overview on recent results on topological algebras, focussing on results of [1, 2], namely on the description of semidirect products for topological semi-abelian algebras, and representability of actions for topological groups with operations.

REFERENCES

- [1] F. Borceux, M.M. Clementino, A. Montoli, On the representability of actions for topological algebras. *Textos de Matemática, Série B*, 46 (2014) 41–56.
- [2] M.M. Clementino, A. Montoli, L. Sousa, Semidirect products of (topological) semi-abelian algebras. *J. Pure Appl. Algebra* 219 (2015) 187–197.

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