

Turkish Journal of Mathematics

Turkish Journal

of

Mathematics

Traces of Maximal Ideals of Topological Algebras in Their Subalgebras

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Abstract: Let K be one of the fields \mathbb{R} or \mathbb{C} , A a topological associative algebra over K with separately continuous multiplication, B a subalgebra of A and M a closed maximal regular left (right or two-sided) ideal of A such that the trace $M \cap B$ of M is a proper subset of B . In cases, when B is a Gelfand-Mazur subalgebra of A or a subalgebra of the centre $Z(A)$ of A , such classes of topological algebras in which $M \cap B$ (in the subset topology) is a closed maximal regular left (respectively, right or two-sided) ideal of B , are described.

Key Words: Topological algebras, Gelfand-Mazur algebras, locally pseudoconvex algebras, galbed algebras, traces of ideals in subalgebras

Turk. J. Math., **31**, (2007), 79-88.

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Other articles published in the same issue: [Turk. J. Math., vol.31, iss.1.](#)