ISTANBUL ANALYSIS SEMINARS

DENSE IDEALS IN TOPOLOGICAL ALGEBRAS

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Abstract: I shall describe some results and some open problems concerning dense ideals in unital topological algebras (mostly in commutative F-algebras, i.e. complete metric algebras). The following topics will be considered:

- (i) When the algebra A in question has a dense ideal.
- (ii) When there are dense ideals of infinite co-dimension (as e.g. in the algebra \mathcal{E} of all entire functions with the compact-open topology).
- (iii) When A has a non-closed radical.
- (iv) When A has proper (i.e. non-invertible) topologically invertible elements.

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