

Turkish Journal of Mathematics

Turkish Journal

of

Mathematics

A Class of Banach Algebras Whose Duals Have the Schur Property

H. MUSTAFAYEV

Department of Mathematics,

Yüzüncü Yıl University, 65080, Van-TURKEY

A. ÜLGER

Department of Mathematics,

Koç University, 80860, İstinye, İstanbul-TURKEY

email: aulger@ku.edu.tr

 [Keywords](#)
 [Authors](#)



math@tubitak.gov.tr

[Scientific Journals Home](#)
[Page](#)

Abstract: Call a commutative Banach algebra A a γ -algebra if it contains a bounded group Γ such that $\overline{\text{aco}(\Gamma)}$ contains a multiple of the unit ball of A . In this paper, first by exhibiting several concrete examples, we show that the class of γ -algebras is quite rich. Then, for a γ -algebra A , we prove that A^{star} has the Schur property iff the Gelfand spectrum \sum of A is scattered iff $A^{\text{star}} = \text{ap}(A)$ iff $A^{\text{star}} = \overline{\text{Span}(\sum)}$.

Key Words: Schur property, Segal algebras, almost periodic functionals.

Turk. J. Math., **23**, (1999), 441-452.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Math., vol.23, iss.3.](#)