Multiplier Amenability of Banach Algebras

Faruk UYGUL

*Department of Mathematics and Statistics, American University of Sharjah,
United Arab Emirates
E-mail: fuygul@aus.edu*

Abstract: Amenability is a distinctive property of locally compact groups and Banach algebras related to them. The amenability of a locally compact group can be characterized by many properties such as the Følner condition and Leptin's condition. Furthermore. the amenability of locally compact groups can also be studied by the properties of certain Banach algebras related to them (such as the Fourier and the Fourier Stieltjes algebras). In this talk we will discuss and present some new results on the amenability properties of Banach algebras in terms of their multiplier algebras.

Keywords: amenable, locally compact, measure algebra, Fourier algebra

2010 Mathematics Subject Classification: 43A07; 43A10; 43A20

References

[1] M. Daws, Dual Banach Algebras: Representations and Injectivity, Studia Math. 178 (2007), 231 - 275.
[2] M. M. Day, Means on semigroups and groups, Bull. Amer. Math. Soc. 55 (1949), 1054 - 1055.
[3] Z. J. Ruan, The operator amenability of $A(G)$, Amer. J. Math. 117 (1995), 1449 - 1474.