D'ALEMBERT'S FUNCTIONAL EQUATION ON COMPACT GROUPS

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This paper is dedicated to Professor Themistocles M. Rassias.

Submitted by M. Abel

ABSTRACT. At the Fourty-forth International Symposium on Functional Equations in 2006, Louisville, Kentucky, USA, T.M.K. Davison presented a talk under the title "D'Alembert's functional equation on compact groups" in which he offered a solution method for this equation on any compact group. In this paper we offer another approach based on some very recent results on spectral synthesis, which method seems to be useful in the case of other equations.

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