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*Multipliers on Banach algebras and applications to the second dual Banach algebras*

We prove results on multiplier algebras for a large class of Banach algebras  $A$ . They are used to characterize the predual of a locally compact quantum group under a representation of its multipliers. Applications are obtained on the second dual Banach algebras  $A^{**}$  of  $A$ . Some results on the group algebra  $L_1(G)$  and the Fourier algebra  $A(G)$  of a locally compact group  $G$  are extended and unified through an abstract Banach algebraic approach.

The talk is based on joint work with M. Neufang and Z-J. Ruan.