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**Integral functionals on the space of Regulated Functions
with values in a Banach Algebra**

In this paper we deal with the notion of regulated functions with values in Banach algebras \mathcal{A} . We prove some results and present examples using quaternions and special triangular matrices. The meaning of this kind of functions is introduced and some particular results are presented. We consider then, the Dushnik integral for these functions and we construct a correspondent linear integral functional on the Banach algebra of all regulated functions $G([a, b], \mathcal{A})$.