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Title: Integrals of weighted maximal kernels with respect to Vilenkin systems

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The integrals of maximal Dirichlet- and Fejér kernels are infinite, so we have to use some weight function to “pull them back” to the finite. In this paper we give necessary and sufficient conditions for weight functions to get finite integrals on arbitrary Vilenkin groups. Especially some equivalence to the finiteness of integral norms of weighted maximal kernels follows in the so-called bounded case. We investigate also the role of the bounded structure of Vilenkin groups in this connection. Similar results are known with respect to the Walsh–Kaczmarz–Dirichlet kernels proved by Gy. Gát [?].

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