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The $L_1(H)$ -module $L_1(G)_H$

Let G be a locally compact group, and let H be a closed subgroup. Identifying Haar measure on H with an H-supported Borel measure on G, the Banach space $L_1(G)$ is naturally a right module over the convolution algebra $L_1(H)$, denoted $L_1(G)_H$. We prove that $L_1(G)_H$ is a strictly flat generator of the category of essential right $L_1(H)$ -modules. This result is the key to understand the representations of G in terms of the representations of its closed subgroups. As an illustration we give a characterization of the strongly continuous 1-parameter group actions which are induced from some doubly power bounded operator.