



MODULE BIPROJECTIVITY AND MODULE BIFLATNESS OF THE FOURIER ALGEBRA OF AN INVERSE SEMIGROUP

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ABSTRACT. For an inverse semigroup S with the set of idempotents E , we find necessary and sufficient conditions for the Fourier algebra $A(S)$ to be module biflat, or module biprojective (as $\ell^1(E)$ -module). As a result, when S is either a bicyclic inverse semigroup or a Brandt inverse semigroup, $A(S)$ is module biflat and module biprojective.

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