

عنوان مقاله:

On Left ϕ -biflat and Left ϕ -biprojectivity of θ -lau Product Algebras

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خلاصه مقاله:

Monfared defined θ -Lau product structure $A \times_{\theta} B$ for two Banach algebras A and B , where $\theta: B \rightarrow \mathbb{C}$ is a multiplicative linear functional. In this paper, we study the notion of left ϕ -biflatness and left ϕ -biprojectivity for the θ -Lau product structure $A \times_{\theta} B$. For a locally compact group G , we show that $M(G) \times_{\theta} M(G)$ is left character biflat (left character biprojective) if and only if G is discrete and amenable (G is finite), respectively. Also we prove that $\ell^1(\mathbb{N}_{\vee}) \times_{\theta} \ell^1(\mathbb{N}_{\vee})$ is neither $(\phi_{\mathbb{N}_{\vee}}, \theta)$ -biprojective nor $(\phi_{\mathbb{N}_{\vee}}, \theta)$ -biprojective, where $\phi_{\mathbb{N}_{\vee}}$ is the augmentation character on $\ell^1(\mathbb{N}_{\vee})$. Finally, we give an example among the θ -Lau product structure of matrix algebras which is not left ϕ -biflat.

کلمات کلیدی:

Left ϕ -amenability, Left ϕ -biflatness, Left ϕ -biprojectivity, Left ϕ -contractibility, θ -Lau product

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