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Title: Derivations into various duals of Lau product of Banach algebras

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For two Banach algebras A and B , an interesting product $A \times_{\theta} B$, called the θ -Lau product, was recently introduced and studied for some non-zero multiplicative linear functional θ on B . In this paper, by discussing general necessary and sufficient conditions for n -weak amenability of $A \times_{\theta} B$, we extend some results on the n -weak amenability of the unitization $A^{\#}$ of A , to the θ -Lau product $A \times_{\theta} B$. In particular, we improve several known results on n -weak amenability of $A \times_{\theta} B$ and answer some questions on this topic.

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