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## Negative Results Concerning Fourier Series on the Complete Product of $\mathcal{S}_3$

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**Abstract:** The aim of this paper is to continue the studies about convergence in  $L^p$ -norm of the Fourier series based on representative product systems on the complete product of finite groups. We restrict our attention to bounded groups with unbounded sequence  $\Psi$ . The most simple example of this groups is the complete product of  $\mathcal{S}_3$ . In this case we proved the existence of an



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