

**\mathcal{J} -REGULARITY OF MULTIVARIATE STATIONARY SEQUENCES FOR
SOME FAMILIES \mathcal{J}**

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Abstract: Let $n \in \mathbb{N}$, S be a nonempty finite subset of the set of integers, S^c be its complement, and \mathcal{J} be the family of translations of S^c by ln , $l \in \mathbb{Z}$. For such a family, \mathcal{J} -regularity of a q -variate stationary sequence over \mathbb{Z} is studied. If S contains exactly n elements, a description of a \mathcal{J} -regular sequence in terms of its spectral density is obtained. Some examples are given for the case where S contains more than n elements.

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