Valov, Vesko M.; Kozlov, Konstantin L.
Spectral representations of topological groups and near-openly generated groups. (English. Russian original) Zbl 1440.22002

Inverse spectra are often used in topology and topological algebra. Their use in the theory of topological groups began with the pioneering works by Pontryagin. Using inverse spectra, the authors introduce the new concept, it is near-openly generated groups. The main aim of the paper under this review is to describe the class of near-openly generated topological groups. The class of near-openly generated groups has nice properties. It is topologically and multiplicatively closed. Dense and open subgroups, quotients and the Raikov completion of a near-openly generated group are near-openly generated. The class of near-openly generated groups is sufficiently large. The authors give a topological characterization of near-openly generated groups and they establish characterization of near-openly generated groups using their isomorphic embeddings in products of second-countable topological groups. They use methods of inverse spectra and topological game theory.

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MSC:
22A05 Structure of general topological groups
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Keywords:
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References: