

# Catching sequences with ideals

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We review the most recent results that use the Invariant Ideal Axiom introduced by the authors to present a full (consistent) topological classification of countable sequential groups. We then show that IIA has sufficient power to be an effective tool in studying sequences in general countable (not necessarily sequential) groups and uncountable groups. As an application we answer some questions asked by D. Shakhmatov, A. Arkhangel'skii, and M. Tkachenko. We conclude by stating a number of open questions.

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