Remotely sequential spaces

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We call a topological space X *remotely sequential* if every $A \subseteq X$ which is not closed contains a convergent sequence. We construct examples of remotely sequential spaces which are not sequential and show their relevance to classification of countable topological groups.

References

[1] M. Hrušák and A. Shibakov, Invariant ideal axiom, beyond the countable sequential groups. To appear in Fund. Math (2024).

[2] M. Hrušá and A. Shibakov, Definable topology. In preparation (2024).

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