

Ideal versions of wQN-space and QN-space

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P. Das and D. Chandra [3] introduced and initiated the investigation of modifications of notions of a wQN-space and QN-space [1] based on convergence of reals with respect to ideal [2] and appropriate modification of quasi-normal convergence. We present their paper as well as our common work with L. Bukovský and P. Das.

Original notions are particular case of these new modifications. In fact, if the cardinality of the smallest base of the ideal is less than \mathfrak{p} then notions of [3] coincide with wQN-space and QN-space, respectively. Assumptions on ideal were often used to prove same results as in the original case. We discuss these assumptions and we present characterizations of investigated modifications similar to well-known characterizations of wQN-space and QN-space.

References

- [1] Bukovský L., Reclaw I. and Repický M., *Spaces not distinguishing pointwise and quasinormal convergence of real functions*, Topology Appl. **41** (1991), 25–40.
- [2] Cartan H., *Filtres et ultrafiltres*, C. R. Acad. Sci. Paris **205** (1937), 777–779.
- [3] Das P. and Chandra D., *Spaces not distinguishing pointwise and \mathcal{I} -quasinormal convergence of real functions*, Comment. Math. Univ. Carolin. **54** (2013), 83–96.

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