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On point-finiteness in pointfree topology. (English summary)

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The authors point out that in pointfree topology the point-finite covers introduced by Dowker and Strauss do not behave like their classical counterparts with respect to transitive quasi-uniformities. A new and stronger notion of point-finiteness allows them to place point-finite covers adequately among the classes of interior-preserving and closure-preserving families of covers that are relevant in the pointfree theory of (transitive) quasi-uniformities. In this way they complete their investigations begun in [Kyungpook Math. J. **44** (2004), no. 3, 415–442; [MR2095985 \(2005g:54049\)](#)]. The various concepts discussed are illustrated by interesting examples.

Reviewed by *Hans-Peter A. Künzi*

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