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*The  $G_\delta$ -topology and incompactness of  $\omega^\alpha$*

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**Abstract:** We establish a relation between covering properties (e.g. Lindelöf degree) of two standard topological spaces (Lemmas 4 and 5). Some cardinal inequalities follow as easy corollaries.

**Keywords:** Lindelöf degree,  $G_\delta$  topology, cardinal functions

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