

**Title:** Ordered separation axioms and the Wallman ordered compactification

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Two constructions have been given previously of the Wallman ordered compactification  $w_0X$  of a  $T_1$ -ordered, convex ordered topological space  $(X, \tau, \leq)$ . Both of those papers note that  $w_0X$  is  $T_1$ , but need not be  $T_1$ -ordered. Using this as one motivation, we propose a new version of  $T_1$ -ordered, called  $T_1^K$ -ordered, which has the property that the Wallman ordered compactification of a  $T_1^K$ -ordered topological space is  $T_1^K$ -ordered. We also discuss the  $R_0$ -ordered ( $R_0^K$ -ordered) property, defined so that an ordered topological space is  $T_1$ -ordered ( $T_1^K$ -ordered) if and only if it is  $T_0$ -ordered and  $R_0$ -ordered ( $R_0^K$ -ordered).

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