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Non-normality points and nice spaces

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Abstract: J. Terasawa in “ $\beta X - \{p\}$ are non-normal for non-discrete spaces X ” (2007) and the author in “On non-normality points and metrizable crowded spaces” (2007), independently showed for any metrizable crowded space X that each point p of its Čech–Stone remainder X^* is a non-normality point of βX . We introduce a new class of spaces, named nice spaces, which contains both of Sorgenfrey line and every metrizable crowded space. We obtain the result above for every nice space.

Keywords: non-normality point; butterfly-point; nice family; nice space; metrizable crowded space; Sorgenfrey line

AMS Subject Classification: 54D15, 54D35, 54D40, 54D80, 54E35, 54G20

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