

## ON THE HEWITT REALCOMPACTIFICATION AND $\tau$ -PLACEDNESS OF FUNCTION SPACES

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We study the relation between extensions of the Hewitt realcompactification type and spaces of strictly  $\tau$ - $F$ -functions. A criterion is obtained for the realcompleteness of the space of Baire functions of class  $\alpha$ . It is proved that the space  $B(X, G)$  of Baire functions from a  $G$ - $z$ -normal space  $X$  to a noncompact metrizable separable space  $G$  is Lindelöf if and only if  $X$  is countable.

Keywords: realcomplete spaces, weak functional tightness, Baire function,  $\tau$ -placedness, Hewitt realcompactification.

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