

Wee-Kee Tang
On Asplund functions

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Abstract: A class of convex functions where the sets of subdifferentials behave like the unit ball of the dual space of an Asplund space is found. These functions, which we called Asplund functions also possess some stability properties. We also give a sufficient condition for a function to be an Asplund function in terms of the upper-semicontinuity of the subdifferential map.

Keywords: Fréchet differentiability, convex functions, Asplund spaces

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