Essén, M.; **Jackson, H. L.**; **Rippon, P. J.**
On minimally thin and rarefied sets in R^p, p≥ 2. (English) Zbl 0594.31014
Hiroshima Math. J. 15, 393-410 (1985).

Let $p \geq 2$, $D = \{x \in R^p : x_1 > 0\}$ (where $x = (x_1, ..., x_p)$). If u is subharmonic in D, $y \in \partial D$, put $u(y) = \limsup u(x)$, $x \to y$, $x \in D$. If $u \leq 0$ on ∂D and if sup u(x)/$x_1 < \infty$, then it is known that $u(x)/x_1 \to \alpha$, $x \to \infty$, $x \in D - E$, where the exceptional set E is minimally thin at infinity. If $p \geq 3$, it is also known that $(u(x) - \alpha x_1)/|x| \to 0$, $x \to \infty$, $x \in D - F$, where the exceptional set F is rarefied at infinity. In the present paper precise descriptions of the geometric properties of the exceptional sets E and F are given in terms of a covering by balls.

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MSC:

31B05 Harmonic, subharmonic, superharmonic functions in higher dimensions

Cited in **2** Reviews
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Keywords:

subharmonic functions; minimally thin sets; rarefied sets; exceptional set; geometric properties of the exceptional sets