

# Pacific Journal of Mathematics

**CORRECTIONS TO: "ORDERED GLEASON PARTS"**

HERBERT STANLEY BEAR, JR.

# ERRATA

Corrections to

## ORDERED GLEASON PARTS

H. S. BEAR

Volume 62 (1976), 337-349

The author is indebted to Professor Miroslav Dont, of Charles University, Prague, for pointing out the following errors. Professor Dont will publish his results in *Časopis pro pěstování matematiky*.

In §4, p. 346, we attribute to Pini and Hadamard the following Harnack inequality for solutions of the heat equation: if  $(x_1, t_1), (x_2, t_2)$  are interior points of  $X$ , and  $t_1 \leq t_2$ , then there is a constant  $M$  such that for every positive parabolic function  $u$ ,  $u(x_1, t_1) \leq Mu(x_2, t_2)$ . The author mistranslated Pini's paper: the theorem requires  $t_1 < t_2$ , and Dont shows by example that  $t_1 < t_2$  is in fact necessary. Hence the Gleason parts for the space of parabolic functions are singletons. The statements throughout the paper which refer to the ordering  $\leq$  for the parabolic functions need appropriate modification, and Theorems 13 and 14 are not correct as they stand.

The theorem of §3 can be strengthened (simply by reading the proofs more carefully) so that applications to the heat equation remain. We indicate the general changes below. To see what is happening in the special case where  $B$  is the space  $B_p$  of parabolic functions on

$$X = \{(x, t): a \leq t \leq b, \varphi_1(t) \leq x \leq \varphi_2(t)\}$$

and  $p_0$  is an interior point of the top horizontal segment in  $X$ , keep in mind that  $X(p_0) = X^0 \cup \{p_0\}$ .

In Theorem 6, replace the last sentence by: " $\mathcal{S} = \mathcal{S}_D$  on a subset  $Y$  of  $X(p_0)$  if and only if  $B^+(p_0)$  is equicontinuous on  $Y$ ." A similar change holds in Corollary 2 to Theorem 7. If  $B = B_p$ , then  $B^+(p_0)$  is not equicontinuous at  $p_0$ , but is equicontinuous on  $X(p_0) - \{p_0\} = X^0$ .

In Theorem 8 replace " $X(p_0)$ " by " $Y$ ", where  $Y$  is any open set contained in  $X(p_0)$ .

In the paragraph preceding Theorem 9 add the definition:  $\hat{B}(Y)$  is the closure of  $B|Y$  in the topology of uniform convergence on compact subsets of  $Y$ , where  $Y$  is a subset of  $X(p_0)$ . In Theorem 9 the hypothesis can be changed to read " $B^+(p_0)$  is equicontinuous on the open subset  $Y$  of  $X(p_0)$ ", and the conclusion to " $Q(\cdot, \theta) \in \hat{B}(Y)$ ". If  $B = B_p$ , this implies that  $Q(\cdot, \theta)$  is parabolic on  $X^0$ , and Theorem 13, with " $X$ " replaced by " $X^0$ " both times, follows from the above version of Theorem 9.

Theorem 14 is false as stated. We will show elsewhere that a positive parabolic function  $v$  on  $(-1, 1) \times (0, 1)$  has the integral representation given, for a finite measure  $\alpha$ , if and only if  $\lim_{t \rightarrow 1^-} v(0, t) < \infty$ . Here we take  $p_0 = (0, 1)$ .

We also note the following errors. Theorem 5 should read " $B|I = C(I)$ " instead of " $B|I$  dense in  $C(I)$ ". On p. 347 the definition  $B_n$  should read: "all  $C^2$  functions which satisfy  $u_{xx}(x, y) - u_{yy}(x, y) = 0$  and  $u_y(x, 0) = 0$ ".

Corrections to

## SUBSEQUENCES AND REARRANGEMENTS OF SEQUENCES IN $FK$ SPACES

ROBERT DEVOS

Volume 64 (1976), 129-135

In Lemma 1 and all subsequent results, whenever we take a sequence in  $E \setminus l^p$  we need take it in  $E \setminus (l^p \oplus \{e\})$ . This error was pointed out by R. A. Shoop.

Corrections to

## EXACT FUNCTORS AND MEASURABLE CARDINALS

ANDREAS BLASS

Volume 63 (1977), 335-346

Professor V. Trnková and J. Reiterman have informed me that the main results in [1] are contained in or easily deducible from [3] and that the example constructed in the last paragraph of [1] was also obtained in [2].

1. A. Blass, *Exact functors and measurable cardinals*, Pacific J. Math., **63** (1976), 335-346.
2. J. Reiterman, *An example concerning set-functors*, Comm. Math. Univ. Carolinae, **12** (1971), 227-233.
3. V. Trnková, *On descriptive classification of setfunctors*, Comm. Math. Univ. Carolinae, **12** (1971), 143-174 and 345-357.

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Roger Evans Howe, <i>On representations of discrete, finitely generated, torsion-free, nilpotent groups</i> .....	281
Roger Evans Howe, <i>The Fourier transform for nilpotent locally compact groups. I</i> .....	307
Roger Evans Howe, <i>On a connection between nilpotent groups and oscillatory integrals associated to singularities</i> .....	329
Roger Evans Howe, <i>Kirillov theory for compact <math>p</math>-adic groups</i> .....	365
Roger Evans Howe, <i>Topics in harmonic analysis on solvable algebraic groups</i> .....	383
Roger Evans Howe, <i>Tamely ramified supercuspidal representations of <math>GL_n</math></i> .....	437
Lawrence Jay Corwin and Roger Evans Howe, <i>Computing characters of tamely ramified <math>p</math>-adic division algebras</i> .....	461
Roger Evans Howe, <i>Some qualitative results on the representation theory of <math>GL_n</math> over a <math>p</math>-adic field</i> .....	479
Herbert Stanley Bear, Jr., <i>Corrections to: "Ordered Gleason parts"</i> .....	539
Andreas Blass, <i>Corrections to: "Exact functors and measurable cardinals"</i> .....	540
Robert M. DeVos, <i>Corrections to: "Subsequences and rearrangements of sequences in FK spaces"</i> .....	540