Pacific Journal of Mathematics

CORRECTION TO: "ON A STRONGER VERSION OF WALLIS' FORMULA"

UPPULURI V. RAMAMOHANA RAO

Vol. 23, No. 3 May 1967

ERRATA

Correction to

A DESCRIPTION OF MULT_i (A^1, \dots, A^n) BY GENERATORS AND RELATIONS

THOMAS W. HUNGERFORD

Volume 16 (1966), 61-76

The statement in the first sentence that \otimes always means \otimes_R is incorrect. The general rule for reading the paper is this: in any statement involving the tensor product of more than two modules or chain complexes, such as $A^1 \otimes \cdots \otimes A^n$ or $K^1 \otimes \cdots \otimes K^r$, \otimes means \otimes_R . In any statement involving the tensor product of two finitely generated free complexes of length i (as in the definition of the generators), \otimes means \otimes_Z . If this is kept in mind, the few exceptions will be clear in context.

In lines 4 and 8 on page 62 "bimodule" should read "module". In the definition of the generators, the complexes E^r for r odd [even] are complexes of length i of finitely generated free right [left] R-modules. u(1) [u(n)] is a right [left] R-module map and u(r, r+1) is a map of R-bimodules.

Correction to

ON A STRONGER VERSION OF WALLIS' FORMULA

V. R. RAO UPPULURI

Volume 19 (1966), 183-187

The note by Boyd [1] has led the author to go through the computations in finding the Bhattacharya bounds and the following corrections should be made in [2].

The results on page 186 of [2] should be corrected as follows:

$$egin{align} S_{_1} &= (Y-n)/\sigma & ext{where} \ \ Y &= \sum\limits_{i=1}^n \left(X_{\,i}^2/\sigma^2
ight) \ S_{_2} &= \{ (Y-n)^2 - 3(Y-n) - 2n \}/\sigma^2 \ \lambda_{_{11}} &= 2n/\sigma^2, \quad \lambda_{_{12}} &= \lambda_{_{21}} = 2n/\sigma^3 \ \lambda_{_{22}} &= 2n(4n+9)/\sigma^4 \ . \end{array}$$

 $\sigma_{\scriptscriptstyle T}^{\scriptscriptstyle 2} > L_{\scriptscriptstyle 2}$ implies:

$$\left\{rac{n}{2}rac{arGamma^2ig(rac{n}{2}ig)}{arGamma^2ig(rac{n+1}{2}ig)}-1
ight\}\sigma^2>rac{\sigma^2}{2n}\,rac{4n+9}{4n+8}\;,$$

for $n=1,2,\cdots$.

For n = 2m, (4) may be written as:

$$\left(\, 5 \,
ight) \qquad \qquad rac{ arGamma^2(m+1)}{arGamma^2igg(\, m \, + \, rac{1}{2} igg)} > m \, + \, rac{1}{4} \, + \, rac{1}{32m \, + \, 32}$$

for $m=1,2,\cdots$.

and for n = 2m + 1, (4) may be written as:

$$\left(egin{array}{c} \Gamma^2(m+1) & \displaystyle rac{\Gamma^2(m+1)}{\Gamma^2igg(m+rac{1}{2}igg)} < \displaystyle rac{igg(m+rac{1}{2}igg)^2}{m+rac{3}{4}+rac{1}{32m+48} \end{array}
ight.$$

for $m=1,2,\cdots$.

Thus (5) and (6) taken together prove

$$\left\{m+rac{1}{4}+rac{1}{32m+32}
ight\}^{_{1/2}}<rac{arGamma(m+1)}{arGamma\left(m+rac{1}{2}
ight)^{\!\!\!2}}<\left\{rac{\left(m+rac{1}{2}
ight)^{\!\!\!2}}{m+rac{3}{4}+rac{1}{32m+48}}
ight\}^{_{1/2}},$$

which also agrees with the result of Boyd [1]. Equation (3) of [2] has to be replaced by equation (7) of this note.

REFERENCES

- 1. A. V. Boyd, Note on a paper by Uppuluri, Pacific J. Math. 22 (1967), 9-10.
- 2. V. R. Rao Uppuluri, On a stronger version of Wallis' formula, Pacific J. Math. 19 (1966), 183-187.

Correction to

MAPPINGS AND SPACES

TAKESI ISIWATA

Volume 20 (1967), 455-480

 $(A \Longrightarrow B: A \text{ should read } B)$

p. 459 line 26 in containing $y_n \Longrightarrow$ containing y_n in

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