

## Errata for “Almost Free Modules, Revised Edition”

Page 67, line 4:  $\sum_{k < n} \varphi(1_k)x(k)$  should be  $\sum_{k < n} \varphi(e_k)x(k)$

Page 111, lines 16-17: the domain of  $\varphi$  should be  $\kappa$ ;  $\mu < \nu$  should be  $\mu \leq \nu$ .

Page 111, line 23:  $A_\nu$  should be chosen to contain  $N_\nu \cup A_{\nu-1}$ .

Page 113, lines 14-16: the second half of (e) should read:

moreover, given a “basis”  $X_\alpha$  of each  $M_\alpha$  such that  $X_\alpha = X_{\alpha+1}|M_\alpha$  for all  $\alpha < \rho$ , then  $\bigcup_{\alpha < \rho} X_\alpha$  is contained in some “basis” of  $\bigcup_{\alpha < \rho} M_\alpha$ .

Page 138: a gremlin introduced the wrong exact sequence into the proof of V.2.6. The second displayed sequence should be:

$$\begin{array}{ccccc} \text{Hom}(\mathbb{Q}/\mathbb{Z}, D) & \rightarrow & \text{Hom}(\mathbb{Q}/\mathbb{Z}, D/A) & \rightarrow & \\ \text{Ext}(\mathbb{Q}/\mathbb{Z}, A) & \rightarrow & \text{Ext}(\mathbb{Q}/\mathbb{Z}, D) & \rightarrow & \end{array}$$

Page 140, Exercise 5: this result is not correct. For a counterexample and more information, see “On a problem of saturation of certain reduced direct products” by A. Laradji and J. Pawlikowski, *Colloq. Math.* 62 (1991), 189-191.

Page 221: in the 5th line from the bottom,  $k \leq \ell(\eta)$  should be  $k \leq \ell(\nu)$ .

Page 368: in the first line of the statement of Lemma 1.9,  $K$  should be  $K'$

Page 369: in the second line of the statement of Theorem 1.10,  $< \kappa$  should be  $\leq \kappa$

Page 372, line -2:  $\beta + 1 \geq \tau$  should be  $\beta + 1 > \tau$

Page 381, statement of Theorem 3.3:  $\kappa$  should be assumed to be uncountable; the hypothesis “ $\text{Ext}(M_\alpha, C) = 0$  for all  $C \in \mathcal{S}$ ” in Theorem 3.3 may be omitted.

Page 440, Notes: the reference to 3.12 should be to 3.14

Page 471, line 21:  $V$ -algebra should be  $V$ -module.

**Page 491: (✘) is not correct; therefore the proof of Theorem XV.3.1 is defective.** By a different method, Göbel and Shelah (“Absolutely Indecomposable Modules” *Proc. AMS* **135** (2007), 1641-1649) have proved a result that implies Theorem XV.3.1 for  $|R|$  and  $\lambda$  less than  $\kappa(\omega)$ . It remains open whether there are arbitrarily large absolutely indecomposable modules.

Page 499, line 1:  ${}^\perp\mathcal{F}$  should be  $\mathcal{F}^\perp$

Page 504, line 16: in the parenthetical remark, add, after “projective dimension  $\leq 1$ ”, “(respectively, injective dimension  $\leq 1$ )”.

Page 525, Notes: add 1.2 is due to Eklof-Trlifaj 2001.

Page 562, Problem F2: “free” should be “projective”

Page 562, Problem F4: the last occurrence of “free” should be replaced by “Whitehead”

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