

Errata for “Almost Free Modules, Revised Edition”

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

Page 111, line 23: A_ν 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_α of each M_α 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:

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

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: κ 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” to appear in *Proc. AMS*) have proved a result that implies Theorem XV.3.1 for $|R|$ and λ 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 ≤ 1 ”, “(respectively, injective dimension ≤ 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”

Last updated Sept. 8, 2007