

# ERRATA to “A COURSE IN ABSTRACT HARMONIC ANALYSIS”

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Page 12, Proposition 1.24b: Assume the involution on  $\mathcal{B}$  is an isometry.

Page 23, second paragraph of proof of Spectral Theorem II: Let  $\mathcal{A}_i = \{T | \mathcal{H}_i : T \in \mathcal{A}\}$ .  $\Sigma_i$  should really be  $\sigma(\mathcal{A}_i)$ . However, the natural surjection  $\mathcal{A} \rightarrow \mathcal{A}_i$  gives a natural continuous injection  $\sigma(\mathcal{A}_i) \rightarrow \sigma(\mathcal{A})$ , so  $\sigma(\mathcal{A}_i)$  can be identified with a subset of  $\Sigma$ .

Page 24, line 4:  $T_{f_n} v = T_f v \rightarrow T_{f_n} v - T_f v$

Page 24, line 9: (1.15c)  $\rightarrow$  (1.15)

Page 25, line -13: \*-homeomorphism  $\rightarrow$  \*-homomorphisms

Page 33, line 1:  $G \times H \rightarrow G/H$  ; also delete “by”.

Page 35, line -4:  $x - y \rightarrow x - z$

Page 36, line 4:  $\bar{p}\mathbf{Z}_p \rightarrow p\mathbf{Z}_p$

Page 39, line -7:  $\int h d\lambda \int f d\mu \rightarrow \int h d\mu \int f d\lambda$

Page 42, line 16: neither continuous nor  $\rightarrow$  not

Page 45, proof of Proposition (2.23), line 5:  $\phi(x) \rightarrow f(x)$

Page 51, first two lines after (2.36): The substitutions should be  $y \rightarrow xy$  and  $y \rightarrow y^{-1}$ .

Page 56, line 7:  $dh \rightarrow d\xi$

Page 65, line 3: is then is  $\rightarrow$  is then

Page 78, line 6:  $\phi(y^{-1}z) \rightarrow \phi(z^{-1}y)$

Page 78, line 7:  $\phi((xy)^{-1}(xz)) \rightarrow \phi((xz)^{-1}(xy))$

Page 78, lines 12, 15, and 16:  $\mathcal{H}_\pi \rightarrow \mathcal{H}_\phi$

Page 80, line 7:  $j = 1, 2 \rightarrow j = 0, 1$

Page 83, line -5: it includes  $\rightarrow$  its linear span includes

Page 94, display (4.15):  $L_\eta f(\xi) \rightarrow L_\eta \hat{f}(\xi)$

Page 96, 4th display:  $M(G) \rightarrow M(\hat{G})$

Page 140, first display:  $k$ 's should be  $m$ 's.

Page 143: The displayed formula on lines 2-3 should be labeled “(5.38)”.

Page 155, lines -7 and -6:  $\mathcal{F}_0 \rightarrow \mathcal{F}^0$

Page 162, line 21:  $SO(2) \rightarrow SO(3)$

Page 164, line 3 of (6.12):  $f^*(z^{-1}) \rightarrow f^*(z)$

Page 180, lines -7, -5, and -3:  $D_G \rightarrow \Delta_G$

Page 186, line 11: 6.44  $\rightarrow$  1.44

Page 192, second display:  $T_{st}\beta$  should be moved from end of first line to beginning of second line.

Page 211, line 8: composition with  $\rightarrow$  composition of

Page 222, line -6:  $\mathcal{A} \rightarrow A$

Page 232, line 4:  $UC(\pi)U^{-1} \rightarrow$  the center of  $UC(\pi)U^{-1}$ .

Page 244, sentence after (7.53): For the representation  $\delta_n^-$ , the factor  $(-bz + d)^{-n}$  in (7.53) must be replaced by  $(-b\bar{z} + d)^{-n}$ .

Page 245, line -2: Insert “(except for a set of measure zero)” after “each coset”.

Page 247, line 8: Theorem 3.2  $\rightarrow$  Theorem 2.3

Page 261, line -2:  $\Delta(y)R_y f \rightarrow \Delta(y)^{1/p}R_y f$ . The following sentence is correct only if either  $G$  is unimodular or  $p = 1$  or  $g$  has compact support; cf. Proposition (2.39).

Page 262, line -9: 1 and 2  $\rightarrow$  (A3.1) and (A3.3)

Page 262, line -8: 2  $\rightarrow$  (A3.3)

Page 262, line -7:  $\pi(x)v \rightarrow \pi(x)u$

Page 275, “representation, equivalent”: 169  $\rightarrow$  69