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Errata to
A COURSE IN ABSTRACT HARMONIC ANALYSIS
(2nd edition, 2015)

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Additional corrections will be gratefully received at `folland@math.washington.edu` .

"line $-n$" means "line n from the bottom."

The following four items will be corrected in the second printing.

Page 122, line 1: The end-of-proof sign at the end of this line should be at the bottom of the preceding page.

Page 259, Figure 7.1: r+ and r- should be ρ_h and ρ_{-h}, respectively.

Page 261, Figure 7.2: p+, p0, and p- should be π^+, π_σ^0, and π^-, respectively.

Page 266, Figure 7.3: p+, p-, d1-, d2-, and dn- should be π_{it}^+, π_{it}^-, δ_1^-, δ_2^-, and δ_n^-, respectively.

Page 65, line 2: $\operatorname{supp} f = \overline{\bigcup_a Va} \subset \bigcup_a \overline{V}a \quad \to \quad \operatorname{supp} f = \overline{\bigcup_a Va}$

Page 72, line -8: 88 $\quad \to \quad$ 89

Page 85: Replace the 2-line display in the middle of the page following the word "Moreover," by
$$\int \langle \pi_\phi(y)\epsilon, \epsilon \rangle_\phi f(y)\, dy = \langle \pi_\phi(f)\epsilon, \epsilon \rangle_\phi = \langle \widetilde{f}, \epsilon \rangle_\phi = \int f(y)\phi(y)\, dy.$$

Page 99, 2nd paragraph of Example, line 6: nonnegative $\quad \to \quad$ positive

Page 99, 2nd paragraph of Example, line 8: Before "From", insert "Also, $w_0 = r_0 = 1$."

Page 123, Lemma 4.66: subsets $\quad \to \quad$ closed subsets

Page 124, line 11: Delete $= \nu(\mathfrak{I}) \cap \partial\nu(f) \cap \nu(f_n) = \nu(\mathfrak{I}) \cap \partial\nu(f)$ and replace the last $=$ by $\subset$.

Page 130, line 1: We have $\quad \to \quad$ For $f \in L^1(G)$ we have

Page 131, proof of Theorem 4.81: (i), (ii), and (iii) should be (a), (b), and (c).

Page 148, Theorem 5.26, line 2: $d_\pi \quad \to \quad d_\pi^{-1}$

Page 148, last two lines: The d_π^2 should be deleted, and the two instances of d_π^3 should each be d_π.

Page 149, Section 5.4, line 3: $SO(3)$ and $\quad \to \quad SO(3)$, $SO(4)$, and

Page 158, line -4: translation $\quad \to \quad$ multiplication

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Page 168, lines 1–2: $\mathcal{F}_0$ $\rightarrow$ $\mathcal{F}^0$ (two places); also, delete "and is left uniformly continuous on G."

Page 170, proof of Proposition 6.8, 2nd paragraph: In the first sentence, replace $\sup_{x \in G} \|f_\alpha(x)\|_\sigma$ by $\|f_\alpha\|$. Replace the second and third sentences by "Since $\|f_\alpha\|$ is given by (6.6), where ϕ can be taken to be supported in a fixed compact neighborhood N of K, it is enough to show $\|f_\alpha(x)\|_\sigma \le C \sup_{y \in G} \|\alpha(y)\|_\sigma$ for $x \in N$. This is true since the integration over H in (6.5) is effectively over the compact set $H \cap N^{-1}K$ for $x \in N$."

Page 201, line 6: Insert "with $x \in H$" after "$\nu' = x\nu$".

Page 227, line -9: $\mathcal{H}^\infty$ $\rightarrow$ $\mathcal{H}_\infty$

Page 246, line -8: μ $\rightarrow$ μ_0 (2 places)

Page 279, lines 5–6 of Section 3: The clause "one is ... V_1" is a correct characterization of $V_1 \otimes V_2$ only when $\dim V_2 < \infty$. This has no effect on the following material.