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Graph Parameters and Invariants of the Orthogonal Group–Errata

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All references in this text are to the document ‘Graph Parameters and Invariants of the Orthogonal Group’.

p.17, l.4: $\sigma(u)$ should be $\sigma(v)$.
p.17, l.7: ‘term’ should be ‘factor’.
p.19, above and below (3.7): $G$ should be $G'$.
p.21, (3.13): $\phi(i)$ should be $\phi(e)$.
p.22, l.6: ‘maps’ should be ‘functionals’.
p.26, l.5: No comma before ‘denote’.
p.27, l.1 from Section 4.2: Add ‘group’ after ‘orthogonal’.
p.27, line above (4.4): $2m$ should be $m$.
p.28 l.6: ‘maps’ should be ‘functionals’.
p.29, l.10: There is a superfluous ‘(‘ after ‘:=’.
p.31, l.3,5,6: $F$ should be $H_1$ and $H$ should be $H_1$.
p.32, l.6: $[2I]$ should be $[I]$.
p.38, l.8: Remove ‘it’ after $f_{-2}$.
p.40, l.5: Add ‘not’ before crossing.
p.41, l.-4: Schur’s Lemma actually only implies that $S^\lambda \subseteq \text{Im } A_n$.
p.42, l.6: $[2l]$ should be $[l]$.
p.48, in line 3 of (5.42): $y_{\phi(\delta(u) \sqcup \delta(s(\pi(v))))}$ should be $y_{\phi(\delta(u) \sqcup \delta(s(v)))}$.
p.61, l.3,5,6: $F$ should be $H_1$ and $H$ should be $H_1$.
p.62 in (6.38): Replace $F$ by $H$ (two times).
p.63, l.4: Replace $A^{-1}$ by $A^{-2}$ (also on p.64, l.2,3).
p.64, l.1: $K_1^* \cdot K_1^*$ should be $K_1^* \otimes K_1^*$.
p.65, 5th line in the proof of Theorem 6.15: Replace $\subseteq$ by $\supseteq$.
p.70, second and third line below the proof of Lemma 7.1: $C^k$ should be $C$ and $C$ should be $C^k$.
p.70, l.10: $p_{a,b}$ should be $p_{1,b}$.
p.75: add $\dim(\text{span}(\{u_1,\ldots,u_n\})) = \dim(\text{span}(\{w_1,\ldots,w_n\}))$ in the statement of Proposition 7.6.
p.75: In the proof of Theorem 7.7 we assume that $u_1$ is orthogonal to all $u_i$, but this not completely correct. Here is fix: In case none of the $u_i$ is orthogonal to all of the $u_i$, we can find, by degeneracy, a nonzero linear combination of the $u_i$, which is orthogonal to all of the $u_i$, and call this $u_{n+1}$. Let $U = \text{span}\{u_1,\ldots,u_n\}$ and write $U = U_1 \oplus U'$ for some algebraic complement $U'$ of $u_{n+1}$. Next we find for each $\varepsilon > 0$, $g(\varepsilon) \in O_k$ such that $gu_{n+1} = \varepsilon u_{n+1}$ by letting $g(\varepsilon)$ map $U'$ identically onto $U'$. Then $\lim_{\varepsilon \to 0} g(\varepsilon)(u_1,\ldots,u_n) = (u'_1,\ldots,u'_n)$ for certain $u'_i \in U$. Let $h' = \sum_{i=1}^n a_i ev_{u'_i}$. 

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Then $\lim_{\varepsilon \to 0} g(\varepsilon)h_{\leq \varepsilon} = h^\prime_{\leq \varepsilon}$. Hence by (7.6) $h^\prime_{\leq \varepsilon}$ is not contained in the orbit of $h_{\leq \varepsilon}$ (as $\dim(U') < \dim(U)$). This implies that the orbit of $h_{\leq \varepsilon}$ is not closed.

p.84, l.7: The term ‘graphon’ is first used in [7].

p.84, l.8: In fact an equivalence class of almost everywhere equal functions $W$.

p.84, (8.3): $W_H$ should be $W_G$.

p.88/p.95: In Examples 8.2, 8.3 and 8.4 we implicitly use $C = \mathbb{N}$.

p.90, l.4: There is a superfluous ‘a’ before ‘any’.

p.94: in (8.27) $\pi_F$ should be $\pi_H$ and in line 2 of (8.29) the sum is over $\phi: E(H') \to C$.

Acknowledgements

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