

# ERRATA AND ADDENDA

to

*An Introduction to Hyperplane Arrangements*

Park City Mathematics Series, volume 14:

Geometric Combinatorics (2004)

by

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These errata are for the version published in the Park City Mathematics Series, volume 14: *Geometric Combinatorics (2004)*, available at [www.math.umn.edu/~ezra/PCMI2004/stanley.pdf](http://www.math.umn.edu/~ezra/PCMI2004/stanley.pdf). Most of them were found by Steven Sam. The page numbers refer to the printed page numbers of the pdf file at the above website, not the pdf page numbers. In brackets after a page number is the corresponding page number of the published version (not yet fully implemented).

- p. 10, end of proof. Should be  $\zeta g = f \iff g = \mu f$
- p. 27, line 4. Change  $L(\mathcal{A})$  to  $L(\mathcal{A}_G)$ .
- p. 27, line 9. Insert after “sublattice” the following parenthetical statement.  
(i.e., it is not true that if  $\sigma, \tau \in L_G$  then  $\sigma \wedge \tau \in L_G$  and  $\sigma \vee \tau \in L_G$ , where  $\wedge$  and  $\vee$  are computed in  $\Pi_n$ )
- p. 27, line 10. Insert after “[why?].” the following sentence:  
In other words, if  $\sigma, \tau \in L_G$  then  $\sigma \vee \tau \in L_G$ , where  $\vee$  is computed in  $\Pi_n$ .
- p. 36, line 6–. Delete “ $y \in S$  but”.
- p. 37, line 5. Change second  $S \cup T$  to  $S \cap T$ .
- p. 41, lines 7– to 6–. Change “of the affine matroid  $M$  of Figure 1” to “of a certain affine matroid  $M$ ”.
- p. 42, line 6. Change  $i - 1$  to  $i + 1$ .
- p. 43, line 9. Change second  $x_1$  to  $x_2$ .
- p. 44, line 12. Change  $\cdots$  to  $\therefore$ .

- p. 49, line 12. Change  $B_l$  to  $B_k$ .
- p. 50, equation (33). Change  $\sum_{y \wedge z = \hat{0}}$  to  $\sum_{y: y \wedge z = \hat{0}}$ .
- p. 52, line 3–. Change  $x\mathcal{A}$  to  $c\mathcal{A}$ .
- p. 53, lines 5–6. Should be displayed so = signs are aligned.
- p. 55, line 10. Change  $p_i(H)$  to  $(p_1(H), \dots, p_n(H))$ .
- p. 59 [448], part (b). Change “internal activity 0” to “internal activity 1”.
- p. 63, line 4. Change  $\mathbb{F}_1^n$  to  $\mathbb{F}_q^n$ .
- p. 72, line 10. Change “intervals” to “interval”.
- p. 78, Lemma 5.6, line 2. Change  $\sigma(x) = \sigma(y)$  to  $\sigma(x) = y$ .
- p. 86, Exercise 27(b) [473]. Change the rating to [3–]. A solution was found by Seunghyun Seo.
- p. 90, line 7. Change  $(c_1, \dots, c_n)$  to  $(c_1, \dots, c_n)$ .
- p. 90, line 14. Change “is easy” to “it is easy”.
- p. 90, line 3–. Change  $\text{sep}(R_0, u)$  to  $\text{sep}(R_0, R_u)$ .
- p. 92, line 13. Change “rearrangment” to “rearrangement”.
- p. 98, line 1–. Change “parking function” to “parking functions”.
- p. 95, line 12. Change “connect it the roots” to “connect it to the roots”.
- p. 98, line 5. Change “(bbb)” to “(bbb)]”.
- p. 101, line 5–. Change  $x_{d+1}$  to  $x_{d-1}$ .
- p. 105, entry (6,2) of  $V$ . Change  $a_a a_2 a_3$  to  $a_1 a_2 a_3$ .
- p. 106, Exercise 5. For a solution, see S. Sivasubramanian, Interpreting the two variable distance enumerator of the Shi hyperplane arrangement, [arXiv:math/0610780](https://arxiv.org/abs/math/0610780).