List of errata

1. Page 8, Section 1.3, line 2 should read:
   \[ x_{n+1}x_{n+r} = \begin{cases} 
   x_{n+1}x_{n+r-1} + x_{n+2}x_{n+r-2} + \cdots + x_{n+\frac{r}{2}}^2 & \text{if } r \text{ is even;} \\
   x_{n+1}x_{n+r-1} + x_{n+2}x_{n+r-2} + \cdots + x_{n+\frac{r-1}{2}}x_{n+\frac{r+1}{2}} & \text{if } r \text{ is odd,} 
   \end{cases} \]

2. Page 8, Section 1.3, line 5 should read:
   \[ x_{n}x_{n+4} = x_{n+1}x_{n+3} + x_{n+2}^2. \]

3. Page 11, Definition 2.1.3 line 1 should read: “Fix \( k \) in \( I \).”

4. Page 11. Equation (2.1) should read:
   \[ x_{k}x'_{k} = \prod_{j=1}^{m} x_{j}^{b_{jk}} + \prod_{j=1}^{m} x_{j}^{-b_{jk}}. \]

5. Page 12, Example 2.1.8. Line 1 should read: “Let \( n = 1, m = 3 \).”

6. Page 14, Definition 2.3.2(a), line 2 should read: “i.e. if there are \( a \) arrows from \( i \) to \( k \) and \( b \) arrows from \( k \) to \( j \), we add \( ab \) arrows from \( i \) to \( j \).”

7. Page 16, Remark 2.4.1, line 5 should read: “a map \( d : Q_0 \to \mathbb{N}_{>0} \) such that \( v(\alpha)_1d(i) = v(\alpha)_2d(j) \) whenever \( \alpha : i \to j \) is an arrow in \( Q \).”

8. Page 19, Section 3.1, line 9 should read:
   \[ M_{j}(t) = p_{j}(t) \prod_{i \in I} x_{i}^{n_{i}} \]

Thus \( M_{j}(t) \) is a monomial in the \( x_{i}, i \in I \), while \( M_{j}(x(t)) \) is a monomial in the \( x_{i}(t), i \in I \). This requires additional corrections in the rest of Chapter 3, detailed in the following points.

9. Page 19, Equation (3.2) should read:
   \[ x_{j}(t)x_{j}(t') = M_{j}(x(t)) + M_{j}(x(t')) \]

10. Pages 19–30. \( x_{i}(t) \) should read \( x_{i} \) throughout (for any \( i \)), except for the following:
    - Page 19, Section 3.1, line 7.
    - Page 19, Equations (3.1) and (3.2),
    - Section 3.2, lines 4–11.

11. Page 20, Statement (E4). Delete the following: “\( x_{k} \) represents \( x_{k}(t_1) = x_{k}(t_2) \)”, and “(with \( x_{j} = x_{j}(t_2) = x_{j}(t_3) \)”

12. Page 21, Remark 3.1.2(c), line 6 should read:
    \[ M_{0} = (M_{k}(t_2) + M_{k}(t_3))|_{x_{j}=0}, \]

13. Page 23, Proof of Lemma 3.3.1, lines 4-5. Delete: “Here \( x_{i} = x_{i}(t) = x_{i}(t') \) for all \( i \in I, i \neq j.\)”

14. Page 23, Proof of Lemma 3.3.1, line 11. Delete: “(where \( x_{i} = x_{i}(t_1) = x_{i}(t_2) \)).”

15. Page 23, proof of Lemma 3.3.1, line 10 should read: “To see (E2), suppose that \( \frac{t_1}{j} \rightarrow t_2 \) is an edge in \( T_{n}, \)”
16. Page 24, line -3. Delete: “for \( i \neq k, \) we write \( x_i = x_i(t_2) = x_i(t_3), \)”
17. Page 25, line 12 should read: “If \( b_{kj} b_{kj} > 0, \) the exponent”
18. Page 26, line 8 should read: “If \( b_{kj}(t_2) > 0 \) then \( b_{jk}(t_2) < 0, \) so \( b_{jk}(t_3) > 0, \) so \( x_j \) appears in the second term.”
19. Page 31, Section 4.1, line 4 should read: “It is positive definite if \( (\alpha, \alpha) > 0 \) for all nonzero \( \alpha \in V. \)”
20. Page 31, Section 4.1, line 13 should read: “i.e. \( (\varphi(\alpha), \varphi(\beta)) = (\alpha, \beta) \) for all \( \alpha, \beta \in V. \)”
21. Page 35, Lemma 4.2.6, line 1 should read: “If \( \Phi \sim \Phi' \), then \( W_{\Phi} \sim W_{\Phi'}. \)”
22. Page 36, Theorem 4.4.1, line 1 should read: “Let \( W = W_{\Phi} \) be the finite reflection group…”
23. Page 46, line -5, should read: \( B = \langle \sigma_1 \ldots \sigma_n \mid \sigma_i \sigma_j \sigma_i = \sigma_j \sigma_i \sigma_j, |i - j| = 1 \rangle \)
24. Page 48, Proposition 4.11.3. The equation in (a) should read: \( \sum_{i=1}^{n} e_i = nh/2 = |\Phi^+| \).
The equation in (c) should read \( "|W| = \prod_{i=1}^{n} d_i". \)
25. Page 51, line 11 after Lemma 5.2.1 should read: “\( F_4 \) from \( E_6 \)”
26. Page 58, line 10 should read: “in type \( A_n, \) if \( |i - j| = 1 \) then \( s_i(-\alpha_i) = -\alpha_i - \alpha_j. \)”
27. Page 60, Section 6.2, line 2 should read: \( T(V) = \mathbb{C} \oplus V \oplus (V \otimes V) \oplus \ldots \)
28. Page 62, line 4 should read (deleting second ‘if ’): “An element \( x \) of \( \bigwedge^k(V) \) is said to be decomposable if it is of the form”
29. Page 63, Equation (9.1) should read: \( \sum_{r=0}^{k} (-1)^r p_{i_1, i_2, \ldots, i_{k-1}, j, j} p_{j_0, \ldots, j_{r}, \ldots, j_k} = 0, \)
30. Page 65, line 10 should read: “where the sum is taken over all tuples satisfying” should read: “where”.
31. Page 102, Reference 96. The author is A. Hubery.
Contributors to this list: Bing Duan, Lisa Lamberti, Amit Shah and Yang Yang. Further corrections welcome. Many thanks!

REFERENCES