Errata and Addenda
for "Algebraic Invariants of Links" (second edition)

7 May 2024

page 30, lines 17-18: "homomorphism ... $c(m_1, m_2)$" should read "function $Ad(c) : M_2 \to Hom_R(M_1, N)$ given by $Ad(c)(m_2)(m_1) = c(m_1, m_2)$."

page 32, line 18: "from $H^{q+1}(X; \Lambda_\mu)$" should be "from $TH^{q+1}(X; \Lambda_\mu)$".

Note also that if we localize at a principal prime then all of these homomorphisms become isomorphisms.

page 49, line 20: "principal ideals" should be "principal fractional ideals".

The assertion "$\widetilde{I}_S = (\widetilde{I})_S$" on line 21 follows from the equation $\widetilde{I} = [R : [R : I]]$, for I a finitely generated fractional ideal in a noetherian domain R. See Proposition V.1.1 of [Bou]. (My thanks to Jun Ueki for pointing out these slips and those on pages 56 and 57.)

page 56, line -3: We should assume here that R is an integrally closed noetherian domain and M is finitely generated.

page 57, line 9: "rank r" should be "rank q".

page 75, line 6: "3.17" should be "3.16".

page 79, line -9: delete the fullstop after "$H_2(X, \Lambda_\mu)$".

page 91, line 4: "Chapter 6" should be "Chapter 7".

page 122, line 9: "$V_{=+1}(L)$" should be "$V_{i+1}(L)$".

Theorem 5.21, part (1): "$\mu \leq 2$" should be "$\mu = 1$", and "$\mu > 2$" should be "$\mu \geq 2$".

page 136, line 16: "$\delta_1(K)$" should be "$\Delta_1(K)$".

page 155, line 10: insert "$K_0, \ldots, K_s$ and" after "choose".

Theorem 7.12 **needs attention**. See also [Co18], [FP17].

Theorem 10.2 overlaps with Theorem 7.2.

page 177, line -11: "$\Lambda_2(L)$" should be "$\lambda_2(L)$".

page 187, line-4: "$\delta\beta^{-1}x\beta\delta^{-1}x^{-1}$" should be "$a^{-1}\gamma^{-1}\theta\varepsilon\theta^{-1}\gamma a\delta\beta^{-1}x\beta\delta^{-1}x^{-1}$".

page 227, line 14: "R" should be "$\mathbb{C}[[t]]$".

page 272, line -13: replace "in higher dimensions" by "in all odd dimensions".

page 275, line 9: "a generator ... R" should be "and generates a summand ... R^2".

page 278, line -11: Delete "See [Rob]", since [Rob] does not discuss the rational central series.

page 282, line -11: "1-cycles $Z_1(\widetilde{X})$" should be "0-cycles $Z_0(\widetilde{X})$".

page 292, line 12: "polyclic" should be "polycyclic".

In several places "Z" or "Z^μ" should be "$\mathbb{Z}$" or "$\mathbb{Z}^\mu$", respectively:
page 24, line 13; page 79, line 8; page 158, line -8; page 249, line 2; page 260, line -6.

[CCMP12] has appeared in *Symmetry* 4 (2012), no. 1, 129–142.
[Ki07] has appeared in Internat. J. Math. 26 (2015), 1550077+.
[Le10] has appeared in *Comment. Math. Helv.* 89 (2014), 719–757.

See also

[Co18] Conway, A. An explicit construction of the Blanchfield Pairing for arbitrary links, Canad. J. Math. 70 (2018), 983–1007.

[FP17] Friedl, S. and Powell, M. A calculation of the Blanchfield pairing of 3-manifolds and knots, Moscow Math. J. 17 (2017), 59–77.

[Li21] Livingston, C. Intrinsic symmetry groups of links, arXiv: 2110.03502 [math.GT].