

LIST OF MISPRINTS AND ERRORS

LAURENȚIU G. MAXIM

The following is a list of misprints/errors found in the printed version of the book *Intersection Homology & Perverse Sheaves, with Applications to Singularities*, published in the series Graduate Texts in Mathematics, Vol. 281, Springer, 2019; ISBN: 978-3030276430. This list will be updated regularly, as needed.

- *Page 31, line -9*: replace “ $\eta \in I^{BM}C_{n-i}^{\bar{q}}(X)$ ” by “ $\eta \in IC_{n-i}^{\bar{q}}((X))$ ”.
- *Page 73, lines 9-10*: replace “in sheaf cohomology” by “of cohomology sheaves”.
- *Page 107, line -5*: remove “trivial” from the second line of Example 6.5.4; this is about the more general “normally nonsingular” inclusions.
- *Page 109, line 9*: replace “ $H_i(L_x; \mathbb{Q})$ ” by “ $\tilde{H}_i(L_x; \mathbb{Q})$ ”.
- *Page 141, Proposition 8.4.5*: the pushforward appearing in the formula should be derived, i.e.,

$$v_{1*}\mathcal{G}^{\bullet} = \tau_{\leq -\ell-1}Rv_*\mathcal{G}^{\bullet}$$

- *Page 146, Example 8.6.4*: Replace $Rj_!$ by $j_!$.
- *Page 150, lines 4 and 10*: Replace “Theorem 8.6.6” by “Corollary 8.6.6”.
- *Page 163, line 1*: one should replace f_*IC_X by Rf_*IC_X in formula (9.12).
- *Page 163*: Example 9.3.30 is stated somewhat vaguely. The variety F should be assumed compact so that the projection map is proper, and the desired Künneth formula holds in intersection cohomology.
- *Page 182, lines -7 and -6*: replace x_1 by x_0 , so that the coordinates on \mathbb{C}^{n+1} are x_0, \dots, x_n .
- *Page 182, line -6*: the explanation after formula (10.1) contains an error: “analytic function germs at $0 \in \mathbb{C}^{n+1}$ ” should be replaced by “analytic function germs defined at $x \in \mathbb{C}^{n+1}$ ”.
- *Page 188*: in the diagram of Corollary 10.1.20, the two horizontal arrows should be labelled as isomorphisms.
- *Page 193, line 1*: “Example 10.29” should be replaced by “Example 8.3.4”.
- *Page 197*: two lines above the diagram, the restriction of f to X^* should be denoted by $f^* : X^* \rightarrow D^*$ (instead of $f : X^* \rightarrow D^*$), as it already appears in the diagram.
- *Page 217, line -4*: “Corollary 7.12” should be replaced by “formula (7.12)”.
- *Page 217, line 5*: $i^![2]\mathcal{F}^{\bullet}$ should read as $i^!\mathcal{F}^{\bullet}[2]$.
- *Page 217, line -4*: $Perv(X)$ should be replaced with $Perv(f^{-1}(0))$.
- *Page 218, line -6*: $i^![2]\mathcal{F}^{\bullet}$ should read as $i^!\mathcal{F}^{\bullet}[2]$.

Date: March 17, 2021.

- *Page 219, lines 1-3:* Remove “In the category $Perv(X)$ ”, and delete the parentheses around \mathcal{F}^\bullet on all four instances.
- *Page 234:* in the second part of (11.6) replace ${}^p\phi_g$ by ${}^p\varphi_g$.
- *Page 234:* in Theorem 11.2.17 the definition of the gluing correspondence should be corrected as:

$$\mathcal{M} \mapsto (\mathcal{M}|_U, \varphi_{g,1}^H \mathcal{M}, can, Var)$$

- *Page 246, lines 15, 16, 21:* $\varphi_f^H \mathbb{Q}_{\mathcal{M}}^H[\dim \mathcal{M}]$ should be replaced by $\varphi_f^H \mathbb{Q}_X^H[\dim X]$.

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF WISCONSIN-MADISON, USA

Email address: maxim@math.wisc.edu