ERRATA FOR “RATIONAL POINTS ON VARIETIES”

BJORN POONEN

This is an errata list for the book


• Definition 1.3.1: “direct product” should be “finite direct product”.

• Section A.4: Juan Climent Vidal pointed out that \{x, \{y\}\} does not necessarily determine x and y, and that it should be changed to Kuratowski’s definition \{\{x\}, \{x, y\}\}.

• Thanks to the proof of the purity conjecture [Čes18], some simplifications are possible:
  – In Theorem 6.8.3, the “caveat” can be simplified to “the caveat that one must exclude the \(p\)-primary part of all the groups if there exists \(x \in X^{(1)}\) such that 
    \(k(x)\) is imperfect of characteristic \(p\)”.
  – In Corollaries 6.8.5 and 6.8.7, the caveats are unnecessary.
  – In the proof of Proposition 6.9.10, the \(\text{char } k = 0\) proof then works in arbitrary characteristic.

• Warning 6.8.4: \(\text{Br } k(X)\) should be \(\text{Br } k(X)\).

• Proof of Lemma 6.9.8: Where Theorem 6.9.7 is invoked, Corollary 6.7.8 should be mentioned too.

ACKNOWLEDGMENTS

REFERENCES


Department of Mathematics, Massachusetts Institute of Technology, Cambridge, MA 02139-4307, USA

E-mail address: poonen@math.mit.edu
URL: http://math.mit.edu/~poonen/

Date: September 1, 2018.