

The Brauer–Grothendieck group. Errata and comments

J.-L. Colliot-Thélène and A.N. Skorobogatov

December 28, 2021

Pages 118–119, Claim

Mohamed Amine Koubaa pointed out an inaccuracy in our rendition of de Jong’s proof of Gabber’s theorem. One should drop the second part of condition (b) on p. 118 (“but the following composition is zero” and the formula in the next line), on p. 119 remove “ $\psi_2 = 0$ ” in line 5, and in line 6 insert “isomorphic to” before “the direct summand”.

Page 300, Proposition 12.2.1 (b) should be corrected as follows:

“(b) For each irreducible divisor $Y \subset \tilde{X}$ which does not lie over the generic point of $\mathbb{P}_{\mathbb{C}}^2$, the restriction of β to $\mathrm{Br}(\mathbb{C}(Y))$ is zero.”

Page 400, Remark 16.1.7

As pointed out by Yanshuai Qin in his paper “On geometric Brauer groups and Tate–Shafarevich groups” (available at <https://arxiv.org/abs/2012.01681v2>), the result was proved earlier by Cadoret, Hui, and Tamagawa in their paper “ \mathbf{Q}_ℓ - versus \mathbf{F}_ℓ -coefficients in the Grothendieck–Serre/Tate conjectures” (available at <https://webusers.imj-prg.fr/~anna.cadoret/GST.pdf>).

Page 404, Proof of Theorem 16.2.3

On line 11 the proof refers to [Zar77], Thm. 1.1, which assumes $\mathrm{char}(k) \neq 2$. The correct reference is [Zar14], Cor. 2.7, where this restriction is removed.