

The Legacy of Mario Pieri in Geometry and Arithmetic

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Errata and Addenda

This document acknowledges errors, corrects some of them, and briefly reports additional relevant information that came to light only after publication.

Errata

Frontispiece The signature background shouldn't be grey. It was white in all proofs.

Chapter 1

Subsection 1.2.1 The third and fourth sentences of footnote 106 should be replaced by this text:

Although the journals that published Pieri's work commonly included figures, only two of his foundations papers did. In 1904a, his last paper on real projective geometry, he displayed labeled axes three times to clarify the order of collinear points. In §3 and §5 of 1905c, his axiomatization of complex projective geometry, he used three diagrams to present properties of chains and harmonic separation, and to illustrate hyperbolic and elliptic involutions.

Chapter 3

Introduction “Pieri 1914” should be “Pieri 1915”.

Chapter 4

Section 4.1 In footnote 8, Jourdain [1915] should be [1915] 1952.

Section 4.2 On page 309, the background of the picture is greyer than it was in any proof; that caused erasures to show.

Chapter 5

Subsection 5.2.1 In the first sentence, “1914” should be “1915”.

Subsection 5.3.2 In footnote 80, “1914” should be “1915”.

Chapter 6

Subsection 6.4.2 In the 1908a entry, “1914” should be “1915”. The 1914 entry should be replaced by the following text:

1915. *Geometria elementarna oparta na pojėciach “punktu” i “kuli.”*
Biblijoteka Wektora A3. Translated by Stefan Kwietniewski. Warsaw:

Skład Główny w Księgarni Gebethnera i Wolffa. Translation of Pieri 1908a.

Subsection 6.7.4 In the 1980 entry, “1914” should be “1915”.

Subsection 6.7.5 Insert Skof 1999 in the list, between Skof 1960 and Thiel 1995.

Bibliography

- Cantor, G. 1952 The first cited JfM review should be 26.0061.08 not 28.0081.01.
- Van Heijenoort should be alphabetized under V not H.
- Henkin et al. The LC information is out of order, and there is an extra 1959 in
[1957] 1959 the citation.
- Lindenbaum & lacks the original publication data.
Tarski [1935] 1983
- Pieri [1901] 1997 “In Arrighi 1997, 69” should be “In Arrighi 1997, letter 63”.
- Pieri 1908a Twice in this entry, “1914” should be “1915”.
- Pieri 1914 The entry should be replaced by the following text:
———. 1915. *Gieometrja elementarna oparta na pojęciach “punktu” i “kuli.”* Biblioteka Wektora A3. Translated by Stefan Kwietniewski. Warsaw: Skład Główny w Księgarni Gebethnera i Wolffa. Translation of Pieri 1908a. [Cited in the chapter 3 introduction, 5.2, 5.3, 6.4, 6.7, and item Pieri 1908a.]
- Reye 1886–1892 Insert this text before the bracketed annotation: JFM: 11.0424.01
Sturm, 18.0514.02 Müller.
- Skof 1999 The title should be “Mario Pieri, Ugo Cassina”. Insert 505–506
into the page range.
- Tarski lacks the original publication data.
[1935] 1983a
- Van der Waerden should be alphabetized under V not W.
- Zermelo The volume number should be 65.
[1908] 1970

Permissions

- Archivio storico, The permission should be from the Biblioteca “Giuseppe Peano”
page 460 of the Department of Mathematics of the University of Turin.

Index

- COEN, Salvatore was born in 1944.
- Direct motion on page 247, are not indexed adequately.
and congruence,
- REYE, Theodor Delete the second “Reye”.
- SCHAYER, Waclaw (1905–1959)

Addenda

Chapter 5

Subsection 5.2.2 JTS has revised this material for the article “Definitions and nondefinability in geometry,” to appear in the *American Mathematical Monthly*. That paper cites the following two sources as evidence that Pieri’s approach influenced Tarski’s:

Jané, Ignacio. 2006. What is Tarski’s common concept of consequence? *Bulletin of Symbolic Logic* 12: 1–42.

Scanlan, Michael. 2003. American postulate theorists and Alfred Tarski. *History and Philosophy of Logic* 24: 307–325.

Bibliography

The second Pieri volume will have more bibliographic information about Reye’s *Die Geometrie der Lage*.

This article has more bibliographic information about Staudt’s *Geometrie der Lage*:

Hartshorne, Robin. 2008. Publication history of von Staudt’s *Geometrie der Lage*. *Archive for History of Exact Sciences* 62: 297–299.