

# Forgotten mathematician Henry Lowig (1904–1995)

---

## II. Factual appendices. List of Henry Löwig's publications

In: Martina Bečvářová (author); Jindřich Bečvář (author); Vlastimil Dlab (author); Antonín Slavík (author): *Forgotten mathematician Henry Lowig (1904–1995)*. (English). Praha: MATFYZPRESS, Vydavatelství Matematicko-fyzikální fakulty v Praze, 2012. pp. [145]–[152].

Persistent URL: <http://dml.cz/dmlcz/402301>

### Terms of use:

- © Matfyzpress
- © Bečvářová, Martina
- © Bečvář, Jindřich
- © Dlab, Vlastimil
- © Slavík, Antonín

Institute of Mathematics of the Czech Academy of Sciences provides access to digitized documents strictly for personal use. Each copy of any part of this document must contain these *Terms of use*.



This document has been digitized, optimized for electronic delivery and stamped with digital signature within the project *DML-CZ: The Czech Digital Mathematics Library* <http://dml.cz>

## **II.**

# **FACTUAL APPENDICES**



## LIST OF HENRY LOWIG'S PUBLICATIONS

To date, no list of Lowig's publications has been published. The overview below was put together by studying the following review journals and databases and by taking into account information in journals and bibliographical works:

- *Jahrbuch über die Fortschritte der Mathematik* (JFM),
- *Zentralblatt für Mathematik und ihre Grenzgebiete* (ZBL),
- *Mathematical Reviews* (MR),
- *Electronic Research Archive for Mathematics Jahrbuch Database*  
(<http://jmf.sub.uni-goettingen.de>),
- *Zentralblatt MATH–ZMATH Online Database*  
(<http://www.zentralblatt-math.org>),
- *MathSciNet – Mathematical Reviews of on the Web*  
(<http://www.ams.org/mathscinet>),
- *Czech Digital Mathematics Library*  
(<http://dml.cz>),
- J. C. Poggendorff: *Biographisch-literarisches Handwörterbuch zur Geschichte der exakten Wissenschaften*<sup>1</sup> (P).

Other information was obtained for analysis thanks to access to materials held in a private family archive. All items were carefully examined and specified, and various indices of professional journals, bibliographical publications and encyclopedias were taken into account.

Lowig's publications are listed in chronological order.<sup>2</sup> Each item is identified with the letter L and an ordinal number to be easily distinguishable from other sources and references quoted in the monograph. In relation to works which were evaluated and mentioned in review journals and biographical works, additional references have been listed (including source numbers and names of reviewers).

### Articles

[L1] *Über periodische Differenzgleichungen.*

Lotos 78(1930), 1–4.

[Short abstract from doctoral thesis, Faculty of Science, German University in Prague, 1927.]

JFM57.0540.03, 57(1931), p. 540, name of reviewer not provided

P

---

<sup>1</sup> Lowig's name is in Volume VIIa, Teil 3, Berichtsjahre 1932 bis 1953, 1959, p. 143.

<sup>2</sup> From 1934 to 1950, H. Lowig published under his German name Heinrich Löwig and after 1951, Henry Lowig, Henry F. J. Lowig or Henry Francis Joseph Lowig.

- [L2] *Lineare Differenzgleichungen mit Koeffizienten von gemeinsamer Periode.*  
 Acta Mathematica 57(1931), 101–201.  
 JFM57.0535.01, 57(1931), p. 535, O. Perron (München)  
 ZBL0002.39701, vol. 2, p. 397, Lüneburg (Göttingen)  
 MR1555334, name of reviewer not provided (Reference to DML – JFM)  
 P
- [L3] *Zur Theorie der nicht linearen Differenzgleichungen.*  
 Acta Mathematica 57(1931), 293–340.  
 JFM57.0536.01, 57(1931), p. 536, O. Perron (München)  
 ZBL0003.05804, vol. 3, pp. 58–59, C. R. Adams (Providence)  
 MR1555336, name of reviewer not provided (Reference to DML – JFM)  
 P
- [L4] *Lösung der Aufgabe 97 von Anton E. Mayer aus dem Jahresberichte der D. M. V. (40(1931), 46).*  
 Jahresbericht der Deutschen Mathematiker-Vereinigung 42(1933), 19–21.
- [L5] *Bemerkung zu einem Satze von A. Kneser über die Charakteristiken einer partiellen Differentialgleichung erster Ordnung.*  
 Mathematische Annalen 107(1933), 90–94.  
 JFM58.0442.01, 58(1932), p. 442, A. Hammerstein (Kiel)  
 ZBL0005.10404, vol. 5, pp. 104–105, K. Löwner (Prag)  
 MR1512789, name of reviewer not provided (Reference to DML – JFM)  
 P
- [L6] *Komplexe euklidische Räume von beliebiger endlicher oder transfiniten Dimensionszahl.*  
 Acta Litterarum ac Scientiarum Regiae Universitatis Hungaricae Franciscus-Josephinae. Sectio Scientiarum Mathematicarum, Szeged 7(1934), 1–33.  
 [Habilitation thesis, Faculty of Science, German University in Prague, 1934.]  
 JFM60.0324.01, 60(1934), p. 324, G. Aumann (Frankfurt am Main)  
 ZBL0009.25901, vol. 9, p. 259, M. H. Stone (Cambridge, Mass.)  
 P
- [L7] *Über die Dimension linearer Räume.*  
 Studia Mathematica 5(1934), 18–23.  
 JFM60.1229.01, 60(1934), p. 1229, G. Aumann (Frankfurt am Main)  
 P

- [L8] *Über allgemeine Spektralfunktionen.*  
 Zprávy o druhém sjezdu matematiků zemí slovanských, Praha 23. až 28. září 1934, Časopis pro pěstování matematiky a fyziky [Report of the Second Congress of Mathematicians of Slavic Countries, Prague, September 23 – 28, 1934, Journal for Cultivation of Mathematics and Physics] 64(1935), 153–154.  
 [It was also published as an independent reprint.]  
 JFM61.0444.03, 61(1935), p. 444, name of reviewer not provided  
 ZBL0011.02701, vol. 11, p. 27, name of reviewer not provided
- [L9] *Die Einführung der Differentialquotienten im Mittelschulunterrichte.*  
 „Wissen und Wirken“.  
 Mitteilungen aus dem höheren Schulwesen 1937, 34–35 (pedagogical supplement of the journal).<sup>3</sup>
- [L10] *Intrinsic topology and completion of Boolean rings.*  
 Annals of Mathematics (2) 42(1941), 1138–1196.  
 ZBL0061.39306, vol. 61, p. 393, G. Nöbling  
 MR0006494, vol. 3, item 312c, G. Birkhoff  
 P
- [L11] *On the importance of the relation*  

$$[(A, B), (A, C)] = (A, [(B, C), (C, A), (A, B)])$$
*between three elements of a structure.*  
 Annals of Mathematics (2) 44(1943), 573–579.  
 ZBL0061.04803, vol. 61, p. 48, G. H. Müller  
 MR0009756, vol. 5, item 197d, G. Birkhoff  
 P
- [L12] *On transitive Boolean relations.*  
 Czechoslovak Mathematical Journal 1(1951), 199–201.  
 ZBL0048.02204, vol. 48, p. 22, H. Gericke  
 MR0049864, vol. 14, p. 238b, P. M. Whitman  
 P
- [L13] *Bemerkung zu den Primquotienten eines distributiven Verbandes.*  
 Journal für die reine und angewandte Mathematik 190(1952), 49–50.  
 ZBL0046.02701, vol. 46, p. 27, P. Roquette  
 MR0047013, vol. 13, item 815b, P. M. Whitman  
 P

---

<sup>3</sup> This work could not be traced.

- [L14] *On the properties of freely generated algebras.*  
 Journal für die reine und angewandte Mathematik 190(1952), 65–74.  
 ZBL0049.01705, vol. 49, pp. 17–18, J. Schmidt  
 MR0051214, vol. 14, item 443f, R. C. Lyndon  
 P
- [L15] *Gesetzrelationen über frei erzeugten Algebren.*  
 Journal für die reine und angewandte Mathematik 193(1954), 129–142.  
 MR0067853, vol. 16, item 786e, H. A. Thurston  
 P
- [L16] *On the existence of freely generated algebras.*  
 Mathematical Proceedings of the Cambridge Philosophical Society  
 53(1957), 790–795.  
 ZBL0218.08004, vol. 218, p. 44, item 08004, H. A. Thurston  
 MR0092751, vol. 19, item 1153a, H. A. Thurston
- [L17] *On some representations of lattices of law relations.*  
 Osaka Mathematical Journal 10(1958), 159–180.  
 [Errata. 12(1960), 216.]  
 ZBL0228.8004, vol. 228, p. 44, item 08004, H. A. Thurston  
 MR0102489, vol. 21, item 1282, H. A. Thurston
- [L18] *On the composition of some representations of lattices of law relations.*  
 Osaka Mathematical Journal 13(1961), 217–228.  
 ZBL0267.08001, vol. 267, p. 55, item 08001, H. A. Thurston  
 MR0138568, vol. 25, item 2012, H. A. Thurston
- [L19] *Note on the self-duality of the unrestricted distributive law in complete lattices.*  
 Israel Journal of Mathematics 2(1964), 170–172.  
 MR0177918, vol. 31, item 2176, G. N. Raney
- [L20] *On the definition of an absolutely free algebra.*  
 Czechoslovak Mathematical Journal 18(1968), 396–399.  
 ZBL0162.32501, vol. 162, p. 325, self review  
 MR0232727, vol. 38, item 1050, G. Grätzer
- [L21] *On algebras generatable by a given set of algebras.*  
 Mathematica Japonicae 19(1974), 83–91.  
 ZBL0299.08006, vol. 299, p. 69, item 08006, E. Płonka  
 MR0366781, vol. 51, item 3027, Joel Berman

- [L22] *Note on the theory of independence in continuous geometries.*  
 Czechoslovak Mathematical Journal 25(1975), 76–78.  
 ZBL0309.06005, vol. 309, p. 61, item 06005, self review  
 MR0369200, svazek 51, item 5435, S. S. Holland, Jr.
- [L23] *Vollständige Mengen von Algebren.*  
 Zeitschrift für Mathematische Logik und Grundlagen Mathematik 24(1978),  
 45–53.  
 ZBL0377.08012, vol. 377, p. 52, item 08012, self review  
 MR0469852, vol. 57, item 9633, A. Goetz
- [L24] *On the completion of relatively complemented distributive lattices.*  
 Portugaliae Mathematica 37(1978), 161–176.  
 ZBL0473.06004, vol. 473, p. 52, item 06004, W. Bartol  
 MR0633021, vol. 82k, item 06003, H. A. Priestley

### Preliminary reports

- [L25] *On the definition of a free algebra.*  
 Notices of the American Mathematical Society 8(1961), 247.  
 [See item L19.]
- [L26] *On algebras generatable by a given set of algebras.*  
 Notices of the American Mathematical Society 17(1970), 235.  
 [See item L20.]
- [L27] *On complete sets of algebras.*  
 Notices of the American Mathematical Society 19(1972), A-44.  
 [See item L23.]

### Note

Publication of articles [L10]<sup>4</sup>, [L11]<sup>5</sup>, [L12]<sup>6</sup>, [L13]<sup>7</sup> and [L19]<sup>8</sup> was mentioned in the Reviews section of the *Journal of Symbolic Logic*. The article [L12] was briefly reviewed in the same journal by A. L. Forster.<sup>9</sup>

---

<sup>4</sup> Journal of Symbolic Logic 7(1942), p. 131.

<sup>5</sup> Journal of Symbolic Logic 9(1944), p. 31.

<sup>6</sup> Journal of Symbolic Logic 20(1955), p. 199.

<sup>7</sup> Journal of Symbolic Logic 17(1952), p. 223.

<sup>8</sup> Journal of Symbolic Logic 32(1967), p. 425.

<sup>9</sup> Journal of Symbolic Logic 18(1953), p. 67.



