

Papers of E. H. Neville

These papers consist primarily of writings by E. H. Neville, some identified, and many not, a small amount of correspondence, and a box of offprints of articles by and about Neville. Correspondents include W. W. Rouse Ball, W. E. H. Berwick, A. R. [Forsyth?], E. G. Gallop, Amy Herman, R. A. Herman, J. Jackson, J. E. Littlewood (about G. H. Hardy), and W. F. Sheppard. It is not clear if the unidentified writings are lecture notes or drafts of something for publication. The writings tend to be fair copies, with little in the way of alteration.

Box 1: Writings and Correspondence

Envelope with papers inside labelled "36-step trigonally symmetrical circuits in chain and lattice." 53 sheets and folded sheets

Draft, "Fallacies and Paradoxes" 12 sheets gathered with a treasury tag

Two letters to Sheppard from E. H. Neville dated 27 Jan. 1932 and 17 Feb. 1932. 11 sheets

Draft, "The Elliptic Integrals of the Third Kind. E. H. Neville" gathered with a piece of string. Sept. 1957. 2 sheets, then rest numbered 2-32.

Draft, "The Logic of Moving Axes. E. H. Neville" tied together with ribbon. 12 sheets

University of London examination folder with drafts of writings relating to reducible and irreducible clusters. 38 sheets

Draft beginning "There are two kinds of iterative relations satisfied by the function $[x_1, x_2 \dots x_m]^2$ " previously gathered by a paper clip. 10 sheets

University of London examination folder with draft beginning "1. This note investigates as a problem in pure algebra a system of equations introduced by [blank] into the theory of [blank]." 27 sheets, followed by 55 sheets tied together with string

Draft beginning "Some years ago Watson discovered an identity which establishes Schur's inequality" previously gathered by a paper clip. 5 sheets

Draft, "The Extension of Normal Equations. E. H. Neville" with **a letter at the back dated 12 March 1924 from J. Jackson**, all gathered by a metal clasp. 14 sheets

Draft, "Duplicate text." "The Exposure of a Positive Discriminant as a Sum of Squares. E. H. Neville" previously gathered by a paper clip. 14 sheets

Draft beginning "Excitement! I have found out all – or almost all – about the bead business." Previously gathered by a paper clip. 17 sheets

Draft, "The x in $\sin x$: a Defence of the Radian by E. H. Neville." 13 sheets gathered by a string

Draft, "Determinants: An Exposition." 16 sheets gathered by a string

Draft beginning, "In classical geometry there are two conditions for four points A, B, P, Q to be concyclic..." 11 sheets gathered by a string

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Draft beginning, "Results can be obtd. Immediately by diffn under sign of intrn." Previously gathered by paper clip. 8 sheets

Draft beginning, "The exact d.v. $Pdx + Qdy - Rdz=0$ " 2 sheets

Draft, "The vindication of Huckley," one page

Draft, "The multiplication of determinants." 3 sheets

Box 2: Correspondence, Writings, and an Offprint

Offprint from the *Mathematical Gazette*, May, 1964. Vol. XLVII, No. 364, pp. 131-163. Memorial of Professor Eric Harold Neville, M. A., B.Sc.

Brown envelope labelled "Neville Papers"

Letter from Amy Herman to A. R. Forsyth 24 Dec. 1927 (2 sheets)

Offprint of R. A. Herman's life remembered by A. R. Forsyth in *The Times* 6 Dec. 1927 (1 sheet)

Card written by Library staff noting that these items are to go with the Neville papers

Loose group of Letters

From R. A. Herman 23 Jan. 1922. 1 folded sheet

From Amy Herman 3 Dec. 1927 (incomplete), 24 Jan. 1928, 14 Feb. 1928, 29 Jan. 1929. 4 single sheets

Notes about subjects of lectures given by R. A. Herman. 1 sheet

Mathematical notes 2 sheets

Berwick, W. E. H. 7 Nov. 1921, 30 Nov. 1921. 2 folded sheets

From W. W. Rouse Ball 13 Nov. 1922, 20 Nov. 1922. 2 sheets, 1 folded sheet

From J. E. Littlewood 2 Dec. [1947] about G. H. Hardy. 1 folded sheet

From E. G. Gallop 22 Feb. 1928. 1 folded sheet

A packet of writings found tied together, beginning "A range in the several variables, u, v, w is not as a rule definable by a statement only of the values which each variable can assume". 212 sheets

A packet of writings found tied together, with the title "Classn. Of Sets of Points." First draft, Classn. Of Plane Sets. Published in *Acta Mathematica* Vol. 42. 254 sheets

Box 3: Writings

Orange folder containing writings with the first heading "Bertrand curves", others "Axis of curve at any point", "Curve on surface" etc. 189 sheets

Envelope containing a draft writing on mathematical analysis, accompanied by a letter from A. R. [Forsyth?] giving his opinion of the draft, dated 31/xii/25. The envelope is addressed to Walter J. Langford and dated 4 Feb. 1969. Letter: 4 sheets. Draft: 179 sheets

Box 4: Writings

Green folder containing writings with a draft title page headed "Pure Mathematics" with subheadings "Continual Fractions, Real Definite Integrals R.A.H., Bernoulli Numbers and Functions E.W.B., Gamma Function E.W.B., Unif. & Non-unif. [?] E.W.B., Lebeque Intn. And Reprn. In Series E.W.H." 1 notebook with metal fastenings, with 275 sheets laid loose inside back cover

Box 5: Writings

Green folder containing writings with multiple headings, beginning with "Symbolic Logic" and including a heading "Dirichlet Series" by G. H. H. [Hardy], 336 sheets

Loose writings with multiple headings, beginning with "No. of Self-Allied Sub-Primes of a given Integer (R. A. H.)", 91 sheets

Box 6: Writings

Orange folder with writings, "Notes on Electrostatics, R.A.H." bound with metal fasteners, with 13 loose sheets at back with first heading "Transference of origin along axis"

Green folder containing writings, with a title page, "Dynamics, Particle and Rigid." 1 notebook with metal fastenings, with 91 sheets laid loose inside back cover

Tan folder containing writings, with the first heading "Line geometry" and other headings "Zeta function, J. E. L. [Littlewood]". 1 notebook with metal fastenings now disbound with 93 sheets (and 3 prelim. blank sheets); with an additional 111 sheets laid loose inside front cover

Box 7: Writings

Green folder containing writings relating to differential equations. 197 sheets

Box 8: Offprints

Obituary of Robert Alfred Herman, pp. 237-244 of *The Cambridge Review*, 10 Feb. 1928

Sheet listing papers for which no offprints are available

Envelope labelled "Offprints of Neville's Published Papers" which held:

"Partial Fractions Associated with Quadratic Factors," *The Mathematical Gazette* (photo-reproduction, no vol. or no. given)

"The Classification of Sets of Points," *Acta mathematica*, vol. 42 (printed 1918)

"The General Theory of Moving Axes," *International Congress of Mathematicians* Cambridge August 1912

"Definition of a Plane Curve," (journal not identified, reacting to Seshn Aiyar's note dated Apr. 1915)

"Systems of Particles Equipomental with a uniform Tetrahedron," *The Messenger of Mathematics*, New Series No. 534 Vol. XIV, Oct. 1916

"An Additional Note on Certain Equipomental Systems of Particles," *The Messenger of Mathematics* New Series, No. 547 Vol. xiv, Nov. 1916

"Linear Differential Equations," *Journal of the Indian Mathematical Society*, Vol. VII Nos. 1 & 2

"The Field and the Cordon of a Plane Set of Points. An Essay in Proving the Obvious," *Transactions of the Philosophical Society* Vol. XXII, No. XII, Feb. 1918

"Moving Axes with Variable Angles," *The Quarterly Journal of Pure and Applied Mathematics*, vol. xviii No. 190, 1918

"Notes for Lessons Introductory to Differential Geometry," *Mathematical Gazette*, July 1918

"Two Trigonometrical Determinants," *The Messenger of Mathematics*, New Series No. 583 Vol. xlix, Nov. 1919

"The Gauss-Bonnet Theorem for Multiply-Connected Regions of a Surface," *Proceedings of the Cambridge Philosophical Society*, Vol. XIX, Pt. V (read Feb. 1919)

"Sur une Critique de Darboux Relative a un Théorème de Poncelet," *Bulletin des Sciences Mathématiques*, 2nd series, année 192

"The Tracing of Conics," *Mathematical Gazette*, July 1921

"Convention and Duplexity in Elementary Mathematics," *Mathematical Gazette*, n.d.

"Partial Fractions Associated with Quadratic Factors," *The Messenger of Mathematics*, No. 615 vol. lii, July 1922

"Developable Surfaces Through Given Pairs of Guiding Curves," *The Quarterly Journal of Pure and Applied Mathematics*, vol. xlix no. 195, 1922

"The Genesis of Lamé's Equation," *The Quarterly Journal of Pure and Applied Mathematics*, vol. xlix no. 196, 1923

"Parametric Expansions of the Coordinates of a Point on a Curve," *The Messenger of Mathematics*, No. 644 vol. liv, Dec. 1924

"A Note on the Harmonic Conic," *The Messenger of Mathematics*, No. 647 vol. liv, Mar. 1925

"The Inverse of the Miquel-Clifford Configuration," *Journal of the Indian Mathematical Society*, Vol. XVI, Oct. 1926

"Note on an Algebraical Identity," *Messenger of Mathematics*, Vol. lvii No. 678, 1927-28

"The Logarithmic Singularity of the Quarter-Period K," *Messenger of Mathematics*, Vol. lvii No. 678, 1927-28

"The Reduction of a Bilinear Function of Distances from Fixed Points to a Variable Line," by T. McHugh and Neville, *Mathematical Gazette* for July 1928

"William John Greenstreet," *Mathematical Gazette*, vol. xv

"The Concurrence of Triads of Common Tangents to Three Circles," *Mathematical Gazette* July 1930, vol. XV no. 208

"Limits in Geometry," *Mathematical Gazette* May 1931, Vol. XV No. 213

"The Teaching of Geometry," *Mathematical Gazette* December 1933, Vol. XVII No. 226

"Iterative Interpolation," The Jubilee Memorial Volume (Vol. 20) *Journal of the Indian Mathematical Society* (printed 1934)

"Two Determinants," *The Mathematics Student*, Vol. 3 (printed 1936)

"The Tracing of Cubic Curves," *Mathematical Gazette*, October 1934, Vol. XVIII No. 230

"Congruence and Parallelism," *Mathematical Gazette*, February 1934, Vol. XVIII No. 227

"The Food of the Gods," *Mathematical Gazette*, February 1935, Vol. XIX No. 232

"Numerical Equations with Complex Coefficients" *Mathematical Gazette*, July 1936, Vol. XX No. 239

"Bipolar and Trigeminal Co-ordinates on a Line," *The Journal of the Indian Mathematical Society*, New Series, Vol. II No. 5

"The Bearing of Higher Geometry on the School Course," *Mathematical Gazette*, November 1937, Vol. XXL No. 246

"Multipolar and Multiglobular Coordinates," *The Quarterly Journal of Mathematics*, Vol. 9 No. 36, Dec. 1938

"Expansion of Jacobian Functions in Powers of the Moduli," *Journal of the London Mathematical Society*, Vol. 15, 1940

"The Mutual Inductance of Two Circles: a problem in approximation," *The Philosophical Magazine*, Ser. 7, vol. xxx, October 1940

"The Isoptic Point of a Quadrangle," *Journal of the London Mathematical Society*, Vol. 16, 1941

"Jacobian Elliptic Functions," *Journal of the London Mathematical Society*, Vol. 18, 1943

"Confocal Coordinates in Space," *Mathematical Gazette*, December 1943, Vol. XXVII No. 277

"Exercises on a Tightrope," *Philosophical Magazine*, Ser. 7, vol. xxxv, June 1944

"The Genesis of the Codazzi Function," *Journal of the London Mathematical Society*, Vol. 19, 1944

"The Tricircular Generation of a Focus-Sharing Triad of Conics," *Mathematical Gazette*, July 1943, Vol. XXXII No. 300

"Gaskin's theorem and the orthoptic constant," *The Maths Student*, Vol. XIII No. 2 Jun 1945

- "Indefinite Integration by Means of Residues," *The Mathematics Student*, Vol. 13
- "The Structure of Farey Series," *Proceedings of the London Mathematical Society*, Ser. 2, Vol. 51, 1949
- "The Bicircular Generation of a Conic," *The Mathematics Student*, Vol. XV, 1947
- "A Note on Linear Differential Equations," *The Mathematics Student*, Vol. XV, 1947
- "Mathematical Notation," *The Advancement of Science*, No. 26, Sept. 1950
- "On Restricted Cubics," *Journal of the London Mathematical Society*, Vol. 27, 1952
- "A Trigonometrical Inequality," Photoreproduction in *Research Notes*, no further information
- "The Codifying of Tree-Structure," *Proceedings of the Cambridge Philosophical Society*, Vol. 49, Part 3, 1953
- "Involution," *Mathematical Gazette*, September 1953, Vol. XXXVII No. 321
- "Oblique Pedals," *Mathematical Gazette* September 1954, Vol. XXXVIII No. 325
- "Partial Fractions: Rationalizing the Denominator," *The Mathematical Gazette*, no further information
- "The Elliptic Integrals of the Third Kind," *Canadian Journal of Mathematics*, Vol. 11, 1959