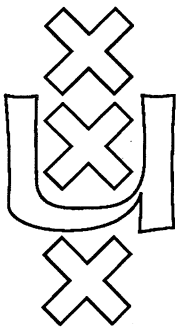


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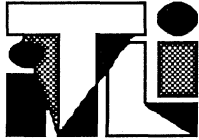
**INDEX OF
THE HEYTING NACHLASS**

compiled by
A.S. Troelstra

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University of Amsterdam



Instituut voor Taal, Logica en Informatie
Institute for Language, Logic and Information

Faculteit der Wiskunde en Informatica
(Department of Mathematics and Computer Science)
Roetersstraat 15
1018WB Amsterdam

Faculteit der Wijsbegeerte
(Department of Philosophy)
Nieuwe Doelenstraat 15
1012CP Amsterdam

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A.S. Troelstra
Department of Mathematics and Computer Science
University of Amsterdam

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Introduction

The present index, prepared more than eight years after Heyting's death, bears a preliminary character. Certain parts of the Nachlass deserve a more detailed description than is given here, and there are a number of open questions which perhaps might easily be answered, given enough time. On the other hand we think that the present index is detailed enough to permit researchers to find relevant material reasonably quickly. It will also be possible, by consulting this index, to see at a glance in many cases whether material concerning Heyting's life and work preserved elsewhere is already present in the Archives in Amsterdam or not. If not I would be grateful for copies of the relevant material, or at least for information concerning its existence and location.

The material in the Nachlass has been divided into a number of major categories, distinguished by capitals in the numbering of items, e.g. B (scientific correspondence), C (courses given by Heyting, seminars and colloquia conducted by him), P (all materials relating to his publications) etc. Usually these major categories are again subdivided. The description of the contents is not carried out with the same amount of detail for each (sub-) category; the scientifically and biographically more important (in our subjective estimation) parts have been described in greater detail than other parts which seemed to us of less immediate interest.

In the sorting and numbering of the material in the Heyting Nachlass I have had the invaluable assistance of Judith van Witsen, emeritus secretary of the Mathematical Institute of the University of Amsterdam.

Division of the material into main categories

Main divisions are indicated by the first (capital) letter of the number of the items. The letters have been chosen because of some mnemonic association with a Dutch word. One division is indicated by two capitals (BS). The main divisions are characterized in the list below; between square brackets "[]" appears the word explaining the choice of letter.

- A. [Aantekeningen] Notes, extracts of books and papers.
- B. [Brieven] Scientific correspondence.
- BS. [Brieven Studies] Correspondence relating Heyting's work as an editor of the series of monographs "Studies in Logic and the Foundations of Mathematics".
- C. [Colleges] Notes of courses given by Heyting, notes and announcements of Seminars and Colloquia conducted by Heyting, lists of participants etc.
- D. [Diversen] Miscellaneous.
- F. [Filosofische aantekeningen] Heyting's notes on philosophical subjects, especially solipsism.
- G. [Genootschappen] Material connected with Heyting's organizational activities, membership of societies etc.
- L. [Leven] Biographical data, photographs etc.
- P. [Publicaties] Material connected with Heyting's publications: drafts, preprints, correspondence relevant to the history of the publication, data on the congresses where the lecture was given which resulted in the publication etc.
- S. [Scripties] Correspondence and documents concerning scripties (= M.Sc. theses) and promoties (= Ph.D theses) prepared under Heyting's guidance, or in the preparation of which he has been involved.
- V. [Voordrachten] Material concerning unpublished lectures and manuscripts of Heyting.

In the majority of cases we have indicated the number of sheets under each entry. If an item is numbered say Xyz-1/10, and there are no further specifications of the number of sheets in the description, this means that there are 10 sheets under number Xyz.

Abbreviations

Cc., cc. = carboncopy,
 Hw., hw. = handwritten, handwriting.
 Ms., ms. = manuscript,
 sh. = sheet(s),
 Ts., ts. = typescript.

Group A. Notes, extracts of books and papers [Aantekeningen].

A1/15 are exercise books containing notes on the courses followed by Heyting as a student. We indicate title and year of the course, and the name of the lecturer.

A16/31 are exercise books, sometimes loose-leaved, from later years, mostly concerned with extracts of, and annotations to Heyting's reading.

all other items are written on loose sheets of varying format, mostly hw. in ink, ballpoint or pencil, a few typed.

A32/41 are notes on intuitionistic mathematics.

A42 is a collection of abstracts from papers and books, ordered alphabetically by author.

A43/47 contains notes on other subjects.

A43 lists bibliographical items.

Where there is a title clearly indicated by Heyting, we have quoted this in italics.

- A1. *Astronomie*, 1916-1917, prof. D.J. Korteweg. Exercisebook.
 A2. *Hoogere Algebraïsche Krommen*, 1918-1919, prof. L.E.J. Brouwer. Exercisebook.
 A3. *Thermodynamica*, 1918-1919, prof. Kohnstamm. Exercisebook.
 A4. *Niet-Euclidische Meetkunde*, 1918-1919, prof. L.E.J. Brouwer. Exercisebook.
 A5. *De meetkunde van het aantal*, 1918-1919. prof. Hk. de Vries. Exercisebook.
 A6. *Duitsche Filosofie*, 1918-1919, prof. T.J. de Boer. Exercisebook.
 A7. *Kennistheorie*, 1919-1920, dr. Polak. Exercisebook. + 3 loose sh.
 A8. *Natuurkunde*, 1919-1921, prof. P. Zeeman.
 A9A/B. *De Canonische Vergelijkingen der Mechanica*, 1919-1920, prof. L.E.J. Brouwer.
 Two exercisebooks.
 A10. *Electriciteit en Hydrodynamica*, without year, prof. v.d. Waals. The actual contents concern exclusively the theory of electricity, with at the end a few pages on the theory of relativity. Exercisebook.
 A11. *Hydrodynamica*, 1920, prof. v.d Waals. Exercisebook plus one loose sh.
 A12. *Kinetische Gastheorie*, 1920-1921, prof. v.d. Waals. Exercisebook.
 A13. *Schommelingen van een mechanisme om een evenwichtstoestand*, 1920-1921, prof. L.E.J. Brouwer.
 A14. *Functies van een reële veranderlijke*, 1921-1922, prof. L.E.J. Brouwer.
 Exercisebook + 8 loose sh.
 A15. *Invariantentheorie*, 1921-1922, prof. R. Weitzenböck. Exercisebook
 A16. Notes on prof. Brouwer's courses on intuitionistic mathematics in 1946-1947 and 1947-1948.
 A17. Back of the exercisebook start with *Aanvullingen bij "Begründung I"*, the front starts with *Aanvullingen bij "Begründung II"*. Additions to L.E.J. Brouwer's papers "Zur Begründung der intuitionistischen mathematik I, II". Exercisebook + 4 loose sh.
 A18. Notes entitled *Uittreksels voor Brouwer*. Exercisebook.
 A19. *Inleiding tot de Wiskunde. Aantekeningen bij de syllabus van prof. de Bruijn*.
 Exercisebook + 7 loose sh.
 A20. Annotations to several books; on the front cover *Courant-Hilbert, Stone*. On the back cover: *Pólya en Szegő*. Exercisebook + 5 loose sh.
 A21. *Topologische Algebra, v. Dantzig*. (On the last page of the exercisebook: "Bij Freudenthal, Zum Intuitionistischen Raumbegriff").
 A22. *S.C. Kleene, voorjaar 1950*. Obviously notes taken from lectures by S.C. Kleene.
 Exercisebook.
 A23. *Loonstra, Algebra*. Exercisebook.

- A24. Excerpts from H. Poincaré, *la Science et l'Hypothèse, La Valeur de la Science, Science et Méthode*. Exercisebook.
- A25A/B. *Uittreksel uit : B.L. v.d. Waerden, Moderne Algebra and B.L. v.d. Waerden, opgaven* (A25A abstracts, A25B exercises; two notebooks).
- A26. *Uittreksels II*. (excerpts from papers/books by F. Klein, P. Appell, E. Cassirer, A. Schoenflies, L.G. Du Pasquier, O. Hölder, L. Kronecker, G. Scorza, D. Hilbert, K. Hensel, G.H. Hardy, J.E. Littlewood, G. Pólya, O. Nicoletti, A. Duschek & W. Mayer; and notes on "Kwadratische Vormen"). Exercisebook.
- A27. *Uittreksels I*. (Excerpts from papers/books by S. Newcomb, W.F. Meyer, Salman-Fiedler, F. Schuh, F. Enriques & H. Fleischer, C. Jordan). Exercisebook plus 2 loose sh.
- A28. *Jordan I*. (Annotations to Jordan, *Cours d'Analyse?*). Exercisebook.
- A29. *Eindige soorten. Aant. bij Hartley Rogers*. Notes on finite species (after J.J. de Jongh), notes on H. Rogers, theory of recursive functions etc. Exercisebook.
- A30. Exercisebook (cover lost), containing a summary of important formulas from vectorcalculus and physics, and an abstract of H. Weyl, *Raum, Zeit, Materie*.
- A31. A hard cover with rings containing 64 loose sh. The contents are miscellaneous; the text runs from front to back and upside down from back to front. Subjects a.o. power series; conformal mappings (also intuitionistically); notes on elementary arithmetic, Neumann series; integral equations; intuitionistic theory of integral equations; Hilbertspace (also intuitionistically); notes for a paper on the intuitionistic theory of Hilbert spaces; various excerpts.
- A32. The following items concerning the intuitionistic theory of order were found together in a cover among Heyting's papers.
- a-1/25. *Bij Int. Math. II*. Annotations to Brouwer's "Zur Begründung der intuitionistischen Mathematik II";
 - b-1/15. Hw. draft of a paper *Das Archimedische Axiom in der intuitionistischen Mathematik*;
 - c-1/6. Untitled typed ms. of a paper on the intuitionistic theory of ordered groups with appended note with references.
- A33-1/3. Notes on the intuitionistic version of the fundamental theorem of algebra.
- A34-1/7 Notes on continuous maps.
- A35-1/6. *Hulpstellingen over continue functies*. Auxiliary theorems on continuous functions.
- A36-1/3. *Les mathématiques de la culture humaine* (2 sh.) + one sh. on intuitionism and formalism. Written in pencil.
- A37. The Cauchy criterion for real numbers (1 sh.).
- A38-1/21. Notes for a planned edition of a selection of Brouwer's work, to appear during Brouwer's lifetime. The notes were found in a cover inscribed by Heyting: *Uitgave Werken Brouwer. Algemeen. Noten. Aantekeningen bij Begründung II*. Some of the annotations have been used by Heyting in the preparation of Brouwer's Collected Works, Vol.1; these were found in a wrapper together with other miscellaneous notes concerning the Collected works (P75). These sh have been reinserted (cf. e.g. A38-8 with ballpoint marking).
- A39-1/5. Pencilled notes on the intuitionistic theory of functions of a complex variable.
- A40. *De rol van de taal in de intuitionistische wiskunde* (cc. ts., 3 sh.). Page 1 was found among Heyting's various notes, pages 2 and 3 were found stapled together with A40-4, a sheet *Opmerkingen over de stellingen van G. Mannoury over "Het oneindigheidsbegrip in en buiten de wiskunde"*, dated 6-XI-1950; A40-2/4 were found in the file G11. A40-1/3 is the text of the talk given by Heyting for the significance circle, 11-IV-1942(?).
- A41-1/27. Notes on the Inter-University Seminar on Intuitionistic Analysis (A41-1/26 notes taken by Heyting during the meetings; A41-27 = the handouts, consisting of 133 sh.).
- A42. Abstracts from papers and books, ordered alphabetically: Achieser -Glasman, Andruetto, Artin, Artin -Schreier, Beghin -Julia, Behari, Beltrami, Bottema, Brouwer, Burnside, Cartan, Cohn -Vossen, Dickson, Fujiwara, Gödel, Gram -Capelli, Hermite, Hilbert, Hjelmlev, Jankov, Jordan, Koksma, Kreisel-Troelstra, Kripke, Levi, Lévy, Lipschitz, Loonstra, Medvedev, Mellish, Neisz, Nogina,

d'Ozidio, Le Paige, Quine, Scarpellini, Schoenflies, V. Schrutka, Schur, Séguier, Skolem, Smullyan, Staples, Steinitz, Strazzeri, Tarski, Thomson -Tait, Vahlen, Veronese, v.d. Waerden, Wellstein.

The sheets are numbered as A42-xyz-n, i.e. A42 followed by the first three letters of the author's name, if necessary distinguished as e.g. sch, sch1 etc., followed by a number.

A43-1/20. Notes on geometry and some other subjects, consecutively numbered in top left corner by Heyting as A1(2 sh.), A2(1 sh.), A3 (2 sh.) A4 (2 sh.), A5 (1 sh.), A6 (1 sh.), A7 (1 sh.), A8 (3 sh.), A9 (2 sh.), A10 is missing, A11 (2 sh.), A12 (3 sh.)

A44-1/7. *Naar aanleiding van de dissertatie*, 7 sh. (heading added ca 1978, text presumably from before 1940).

A45-1/40. Notes on geometry (miscellaneous). Most notes are old; some have been found in Heyting's books.

A46-1/16. Notes on logic, made while studying the literature; cf. also A42.

A47-1/32. Notes on mathematics, not geometry or logic. Part of these were found in Heyting's books. Subjects: properties of a mean value (1 sh.), group extension (3 sh.), binary quadratic forms and bundles of conics etc. (9 sh.), the Fourier series for $y = (1/2)x$ (2 sh.), survey of the principles of the calculus of variations (1 sh.), differential equation connected with the construction of a bridge in Enschede (4 sh.), note on: A. Emming, "Eine Umwälzung in der Mathematik" (4 sh.), miscellaneous (8 sh.)

A48-1/16. Sheets with bibliographical items.

B. Scientific correspondence [Brieven]

The correspondence is ordered in the first place alphabetically by correspondent, and in the second place chronologically. A number is composed thus

B-asj-680514-3,

where

(1) "asj" are the first three letters of the correspondents name (Asjwinikumar). If there are several correspondents whose name begins with the same three letters, we distinguish them by numbers: "smi", "smi1", "smi2" etc.

(2) "680514" codes the date as year (1968) + month (may) + day (the 14th). If the date is incompletely given, the missing information is indicated by "x"; so a letter dated "May 1968" obtains date number 6805x (a year has sometimes been estimated).

For letters from Heyting to the correspondent, an asterisk is added to the date number, so B-smi-700501* is a letter from Heyting.

Occasionally letters are included under the file of correspondent Abcdef say which involve other correspondents besides Heyting and Abcdef; then we use a double asterisk **. If this concerns a letter from Xyzuvw [Heyting] to Heyting {Xyzuvw} we indicate this as "(Xyzuvw ->)" ["(-> Xyzuvw)"].

(3) The last number "3" indicates that this is the third sheet of the letter. (This number may be dropped if there is only a single sheet.)

Sometimes there are manuscripts to which reference is made in the correspondence. These have been numbered not with a date number, but by a capital letter, and follow in the list after the letters. Thus B-asj-A, B-asj-B etc. refer to manuscripts.

For manuscripts not associated with correspondence, but which have been annotated by Heyting, see under group S and under D6.

<u>M.Aebi-aeb</u>	620718** (J. van Witsen to Asjwinikumar)	700805-1/2
510325	620723	700728*
510406*	621010	700823-1/7
	630129	700909*
<u>J.Aler-ale</u>	640513** (S.K. Roy->)	700915-1/14
630422	650302**-1/2 (N.G. de Bruijn ->)	700922*-1/2
	660311-1/4	700928
<u>A.Ambrose-amb</u>	660626*	701004-1/4
350603-1/6	660716	701016*
350730-1/4	660725	701026
350805	660804*	7101x-1/2
	670215	710129
<u>Anonymous (multiple correspondents)-ano</u>	670227*-1/2	710404
580620 (sender H.Scholz a.o.)	670617-1/2	710407*
610923 (sender L. Kalmar a.o.)	670628*-1/3	710415-1/6
710907 (sender D. van Dalen a.o.)	670707** (M.S. Muthana ->)	710422** (B.L.J. Braaksma ->)
710907 (sender J.L. Destouches a.o.)	670812	710426** (-> B.L.J. Braaksma)
	670823	710427*
	671024	710518** (B.L.J. Braaksma ->)
<u>P.A.L.Anspach-ans</u>	671109** (Siddhartha ->)	710525**-1/3
670106	671124** (Siddhartha ->)	710620-1/2
670119*	671125-1/3	710706*
	671210	710711
<u>R.Apéry-ape</u>	680110	710725-1/2
x0531	680206	710727*
	680213*-1/2	710729-1/8
	680407	710815
<u>L.Apostel-apo</u>	680524*	710816*
500220	680919	710919-1/2
	680919*	710920*
<u>S.Armentrout-arm</u>	680927*	711102**-1/4(-> R. Pendleton)
670228*	681003	711103-1/25
	681201-1/2	711117-1/2
<u>E.Artin-art</u>	681220*-1/3	711117** (-> R. Pendleton)
611121*	690209-1/5	711128-1/5
611121** (A.S.Troelstra to E.Artin)	690303*-1/2	711215
611128	6904x	720102-1/4
	690414*	720121** (-> N.J. Divinsky)
<u>F.G.Asenjo-ase</u>	690424-1/4	720203** (N.J.Divinsky ->)
640408** (J.C.H. Gerretsen, Compositio Mathematica to E.W.Beth)	690504	720213-1/2
640619** (J.J.A. Mooy to J.C.H. Gerretsen)	690715	7202x** (L.Collatz ->)
641028** (Heyting to J.C.H. Gerretsen)	690715 (duplicate)	720224** (-> Humboldt- Stiftung)
A (2 sh., report on Asenjo's work by A.S. Troelstra)	690729*	720303
	690810	720507
<u>Asjwinikumar-asj</u>	690813*	720508** (U. Güntzer ->)
620430-1/3	690826	720522** (-> U.Güntzer)
620517*-1/2	690826** (B.L.J. Braaksma ->)	730121-1/3
620525-1/2	690901	730509
620526** (T. Pati ->)	690909*	730523**-1/4 (R. Walter ->)
620529	690911	730531** (-> R. Walter)
620613** (J. van Witsen to Asjwinikumar)	690922-1/2	730610
620618-1/2	691006	730826
620619	691013	7308x** (G.V. Krishnarao ->)
620620	691017*	730903** (-> R. Walter)
620716-1/2	691105	730903a** (-> G.V. Krishnarao)
	691119**-1/2 (-> R.S.L. Srivastava)	731016** (-> to R.Hirschfeld)
	691120	731016** -1/3 (-> Univ. Instelling Antwerpen)
	691126** (R.S.L.Srivastava ->)	731018** (Univ. Instelling Antwerpen ->)
	700101-1/2	731120
	700119	740405-1/7
	700615	740801

- 740812
740827-1/2
750206
750405** (V.K. Deshpandu ->)
750412** (-> V.K. Deshpandu)
751106
751213
760207-1/4
760318-1/6
760502-1/3
761220-1/3
770425-1/4
7705x
770517** (R.F. Brown ->)
770613*-1/2
770615**-1/4 (A.S. Troelstra to
Asjwinikumar)
770629**-1/2 (mrs. Asjwinikumar
->)
7707x** (Sanghmitra ->)
770922
771216** (R.K. Jain ->)
780111** (-> R.K. Jain)
790179
A (18+3 sh.)
A* (notes by Heyting on A, 1 sh.)
B (1+19 sh.)
C (20 sh.)
D (5+1 sh.)
E (3 sh.)
F (1+13+5 sh.)
G(1+46 sh.)
H (16 sh.)
I (7 sh.)
J (28 sh.)
K (32 sh.)
L (6 sh.)
M (5 sh.)
N (3 sh.)
O (49 sh.)
P (5 sh.)
Q (7 sh.)
R (6 sh.)
- G. Asser- ass
70xx (circular letter by Asser,
Flachsmeyer, Rinow->)
701216* (-> Asser, Flachsmeyer,
Rinow)
740130
740208*
740222
740326
780417
- Association for Symbolic Logic-
ass1
521230*
- D. Avishalom-avi
xxx
- T.R. Bachiller-bac
- 410117
410217
410228
H.P. Barendregt-bar
780315
780414
- J. Barlaz-bar1
530115
- W.W. Bartley III-bar2
660226-1/3
- T. Bastin-bas
640317
640325*
640402
- A. Bayart-bay
530525-1/5
530707*
- M. Bayer-bay1
470424
- O. Becker-bec
310105
310216-1/2
330919-1/2
330923*-1/3
3309x-1/3
3409x
541002** (Orbis Academicus ->)
- H. Behmann-beh
310208
- H. Behnke-beh1
370715
- B. Bekker-bek
470318
470924
480322
- W.R. Belding-bel
731010*
731030
- M.J. Belinfante-bell1
310325
310331
310506
320510
340502
340719
340816*
340828
340903
341114
360906
- 360923
361119
361220
370906
381011
640501**(-> Sachsische Akademie
der Wissenschaften zu Leipzig)
- P. Benacerraf & H. Putnam-ben
780622-1/2
780627-1/2
780731-1/2
781010*
- A.J. Benson-ben1
541110-1/2
- G.v.d. Bergh-ber
580517
620206
- J.J.W. Berghuys See Sber
- P. Bernays-ber1
301105-1/4
421212
680508
- P. Bessière-bes
661227-1/2
661228-1/2
670127** (-> M.D. Frank)
670129*
670130** -1/3 (M.D. Frank ->
Heyting, Bèssiere)
670210** -1/2 (Bèssiere ->
M.D. Frank)
670214
670302** (M.D. Frank ->)
670420** (Bèssiere -> M.D. Frank)
670704*-1/2
670708
670710-1/2
670725*
670811
670929-1/2
671207-1/2
671211** (M.D. Frank ->)
671213*
671213-1/2
671214
671220*
671222
671227*-1/3
680118
680129** (M.D. Frank -> Bèssiere)
680403*
680508-1/2
681007** (M.D. Frank -> Bèssiere)
681010
681010**-1/2 (Bèssiere ->
M.D. Frank)

681014** (M.D.Frank -> Bèssiere)	490815*-1/2	480125
681017*		
681017** (-> M.D. Frank)	<u>E.Bishop-bis</u>	<u>K.Bowen-bow</u>
	660922	700810
<u>E.W.Beth-bet</u>	661130*	701215*
351222*	670124	710104-1/2
351223	701016*	720111** (R.A.Beaumont ->)
400420	701026	720114
410604*		720120** (-> E.Hemmingsen)
470816*	<u>E.F.Blokker-blo</u>	720120a** (-> R.A.Beaumont)
490412*	660718	7201x** (E.Hemmingsen ->)
491031*	6608x*	720127** (R.A.Beaumont ->)
491107*	660908*	730609
491115*	660912	730619*
4911x** (circular letter)		760614-1/5
491222*	<u>A.Blum-blu</u>	760710
500104*	730802	7607x** (-> anonymous)
510914-1/2		761112** (J.F.Mathias ->)
520105	<u>J.M.Bochenski-boc</u>	761201** (-> J.S.Guggenheim
520110	600105	Foundation)
520117	600310*-1/3	7612x** (J.S.Guggenheim
520125* + dupl.		Foundation ->)
520208*	<u>P.Bockstaele-boc1</u>	771017** -1/6 (E.Hemmingsen ->)
520214*	471211	771028** (-> E.Hemmingsen)
520218		771110** (E.Hemmingsen ->)
520407*-1/2	<u>H.B.A.Bockwinkel-boc2</u>	
520524*-1/2	571016	<u>H.Bremekamp-bre</u>
520802*-1/2	57xx-1/15	360131
520816*	A (9 sh.)	
530526*		<u>L.E.J.Brouwer-bro</u> (for Heyting on
530606-1/2	<u>G.H.Bode-bod</u>	Brouwer, see also J.Liebenau,
530606** -1/2 (E.W.Beth to Jean	590208-1/4	B. Willink)
xxx)		240626
530623	<u>W.W.Boone-boo</u>	260511
531109*-1/2	600525	270111
540109		280717
540112	<u>J.N.Boots-boo1</u>	291007*-1/2
540205** (Kon. Nederl. Akad. v.	750525	290928
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BS60-1/22	

Group C. Courses, seminars and colloquia conducted by Heyting [Colleges]

On the cover of a file with notes on lectures etc. found among Heyting's papers the contents are listed as containing a.o. "Algebra cursus" and "Logistiek". Of these courses nothing has come to light.

For many years, at least from 1956 till 1963, Heyting taught evening courses for students for the diploma "M.O. A". There is no record of course notes, but the courses were apparently more or less identical with the courses on the same topics taught at the university.

Below the word "syllabus" has been used, in keeping with dutch usage, to denote detailed lecture notes, in most cases also including proofs of theorems etc.

Where a title is clearly indicated, this is reproduced below in italics.

C0. Lists of participants in courses and colloquia of Heyting. Numbered according to the year: e.g. C0-56A refers to C56A below. Present are the lists:
C0-36, 40, 40A, 41, 41A, 42, 46, 47, 48, 48A, 49, 49A, 50, 50A, 52, 53, 54, 54A, 55, 55A, 56, 56A, 56B, 57, 58, 59, 59A, 60, 60A, 61, 62, 62A, 64, 64A, 65, 65A, 66, 67, 67A, 68. Lists of participants for C53 under C53-1, for C68B under C68B-143/144.

For the rest all courses are numbered by the year, where Cxy falls in the year 19xy or the academic year 19xy-19x(y+1).

C36. *Intuitionistische Wiskunde* (1936-1937). Exercisebook with notes for the course.

C39-1/2. Seminar *Grondslagen der Wiskunde* (1939-1940). List of the literature used, in Heyting's hw. (2 sh.).

C40-1/17. Notes for the course *Filosofie van de Wiskunde* (1940-1941).

C40A. *Voordrachten over elementaire meetkunde* (ca 1940; after Freudenthal). 1 sh. with literature in Heyting's hw.

C40B-1/2. *Voordrachten bij de modellenverzameling* (1940-1941). Marked in top left corner "S40". 2 sh. in Heyting's hw., containing a list of relevant papers and a brief description of the contents of the lectures.

C42-1/3. *Voordrachten over differentiaalmeetkunde* (1942). Marked in top left corner "S42". 3 sh. in Heyting's hw., containing a list of publications, an annotation to one of the papers and a summary of the contents of the lectures.

C48. *Intuitionistische Axiomatiek der Projectieve Meetkunde* (1948-1949). Ts. syllabus, notes taken by G.W. Decnop. There is also a cc. of the ts. (16 sh.).

C48A-1/19. *Axiomatique intuitionniste de la géométrie projective*. (French translation of C48, presumably by N. Dequoy.)

C49. *Intuitionistische Theorie der Hilbert-ruimte* (1949-1950). Cc. of ts. of the syllabus (36 sh.). A note by Heyting, dating from 1978 states that the syllabus had been prepared by B. van Rootselaar; the copy from the library of the Faculty of Mathematics and Computer Science has "elaborated by G.W. Decnop" (2 extra copies).

C49A. *Grondslagen der Wiskunde* (1949-1950). Course given in Eindhoven. The notes were filed by Heyting under "Voordrachten". The nature of these notes makes filing under main division C more appropriate. 1/20, 40, 41 constitute more or less a syllabus of the course.

-1/19. Stencilled notes headed "Grondslagen der Wiskunde, Mathematisch Centrum, Amsterdam".

-20. Stencilled sh. "Colloquium Grondslagen der Wiskunde. Eindhoven 11 Oct. 1949".

-21/39. Notes in hw.

-40/41. Two stencilled sh. headed "Grondslagen der Wiskunde. Axioma's der Euclidische Meetkunde."

C50-1/9. Stencilled syllabus headed *Cursus Intuitionistische Wiskunde*. 1949-1950. Mathematisch Centrum". Filed by Heyting under "Intuitionistische Wiskunde. Eindhoven 1950-1951".

- C50A.** *Lineaire Algebra*. See C55.
- C51-1/49.** *Conforme Afbeelding*. Seminar 1951-1952. Sheets 1/7 are stencilled notes headed "De afbeeldingsstelling van Riemann". 8/49 are hw. notes; on the original wrapper in Heyting's hw. "Uittreksels Conforme Afbeelding".
- C52.** *Inleiding tot de intuïtionistische wiskunde* (1952-1953). Course notes elaborated by J.J. de Jongh. Stencilled syllabus, 98 pages.
- C52A-1/44.** *Elementaire Meetkunde van hoger standpunt belicht*. Sheets 1/34 constitute a stencilled syllabus headed: "Elementaire Meetkunde van hoger standpunt belicht. A. Heyting. 1952-1953. Mathematisch Centrum, Amsterdam." Sheets 35/44 consist of hw. notes. Filed by Heyting under "Voordrachten", but it is rather a course.
- C52B.** *Algebraïsche krommen* (1952-1953). Typed course notes, 83 pages.
- C53-1/16.** *Colloquium Intuïtionistische Wiskunde* (1953-1954). Some notes and a list of participants, found in Heyting's copy of S.C. Kleene, Introduction to Metamathematics; also announcements of the 2nd till the 7th lecture found elsewhere.
- C55.** *Lineaire Algebra*. Stencilled syllabus. On the cover: "Mathematisch Instituut 1950-1951 en 1955-1956". Contains also a copy of C55A. 15(1950-1951) + 19 + 14 + 2 pages.
- C55A.** *Analytische Meetkunde II*. (year not exactly known). Stencilled syllabus without cover, 11 pages.
- C55B-1/8.** *Vectorruimten*. C55B-1 is a sh. in hw. "Vectorruimte"; 2/8 are a stencilled syllabus headed: "Vectorruimten (supplement "Matrices en Determinanten")".
- C56-1/38.** *Kurosh: Gruppentheorie* (1956). Notes concerning a "werkcollege" (course with active participation of the audience) on the intuitionistic theory of groups. Notes elaborated by J.J. de Jongh.
- C56A.** *Axiomatiek der Projectieve Meetkunde* (1956-1957). Stencilled syllabus elaborated by D. van Dalen, 38 pages. Notes from 1958.
- C56B.** *Projectieve Meetkunde* (1956-1957) Stencilled syllabus, 55 pages.
- C57-1/41.** *Differentiaalmeetkunde* (1957-1958). Hw. notes; contains pages from earlier years.
- C57A.** *Vectorrekening* (1957-1958). Stencilled syllabus, 5 pages.
- C58.** *Analytische Meetkunde II* (1958-1959). Stencilled syllabus, 23 pages.
- C59-1/5.** *Colloquium Afstandsmeetkunde* (1959?). Description of the 2nd to 6th lecture on 5 undated sh.. Among the participants: v.d. Arend, van Dalen, v. Gemert, H. Kesten, T. Runnenburg.
- C60.** *Analytische Meetkunde II* (1960-1961). Stencilled syllabus, 24 pages.
- C62-1/22.** *Intuïtionistische Axiomatiek der Projectieve Meetkunde* (1962-1963). Heyting's hw. notes for the course.
- C62A.** *Seminarium Recursieve Functies*. Found in a cover inscribed in Heyting's hand : 1961-1962, 1962-1963, 1964-65-66. Some of these seminars were conducted as "privatissimum": very small groups, meeting in Heyting's room (in particular 12/23, 36/48). The typed material is not by Heyting, but by participants in the seminars.
- 1. Summary Colloquium Rec. Fns. 1960-1961 (1 sh.).
 - 2. Summary Colloquium Rec. Fns. 1961-1962 (1 sh.).
 - 3/11. Literature and summaries in Heyting's hw.
 - 12. Typed annotation to a paper by J.C.E. Dekker and J. Myhill, Trans. Am. Math. Soc. 89 (1958), 25-59.
 - 13/15. Typed summary of J. Myhill, Zeitschr. f. math. Logik u. Grundl. d. Math. 1(1955), 97-98.
 - 16/23. Typed notes on the notions of recursive, recursively enumerable, productive, immune etc.
 - 24/29. Notes in Heyting's hand on J.C.E. Dekker, "Two notes on recursively enumerable sets" and "Productive sets".
 - 30/35. Notes in Heyting's hand on E.L. Post, Bull. Am. Math. Soc. 50 (1944), 284-316.
 - 36/48. Typed notes on a paper by Post. Marked 1961-1962.
 - 49/52. Typed presentation of R.M. Friedberg, "Two recursively enumerable sets of incomparable degrees of unsolvability", Proc. Nat. Acad. Sc. 43 (1957), 236-238.
- C62B.** *Colloquium Modeltheorie* (1962-1963). Colloquium conducted by E.W. Beth and Heyting. Announcement, 1 sh..

- C63.** *Axiomatiek der Projectieve Meetkunde* (1963?). A single leaf in hw.; the text is in ink, and thus presumably dating from well before 1963, but has been renumbered in the top left corner in ballpoint "63, 7".
- C65.** *Axiomatiek der Projectieve Meetkunde* (1965-1966). Hw. notes. The year was not indicated on the original cover, but taking Heyting's usual system of numbering notes from later years into account, we may assume the notes to date from 1965-1966.
- C65A.** *Analytische Meetkunde* (1965-1966). Stencilled syllabus, 23 pages.
- C65B.** *Intuitionistische Wiskunde* (1965-1966). A single leaf in Heyting's hw.
- C65C-1/4.** Correspondence with A.S. Troelstra concerning a topic for a seminar in 1965-1966 (4 sh.).
- C66-1/42.** *Intuitionistische Analyse* (1966-1967). Hw. notes by Heyting.
- C66A-1/39.** *Niet-Euclidische Meetkunde* (1966-1967). Hw. notes by Heyting.
- C66B-1/2.** Colloquium *Topics in Model Theory* (1966-1967), conducted by H.B. Curry, A. Heyting, B. van Rootselaar, organized by the Mathematical Centre and the Mathematical Institute of the University of Amsterdam. Announcement, letter of B. van Rootselaar (2 sh.).
- C67-1/23.** *Intuitionistische Logica* (spring 1967). Hw. notes by Heyting.
- C67A-1/16.** *Intuitionistische Wiskunde* (autumn 1967). Hw. notes by Heyting.
- C67B-1/75.** *Rekursieve Functies*. Hw. notes by Heyting. Last year given: 1967-1968. The noters actually date from many different years.
- C68-1/24.** *Intuitionistische Verzamelingenleer* (spring 1968). Hw. notes by Heyting. Contain parts of earlier notes.
- C68A-1/16.** *Intuitionistische Algebra* (1968). Hw. notes by Heyting. Contain parts of earlier notes.
- C68B.** *Colloquium Rekursieve Functies* (1968-1969). This colloquium was lead by Heyting at the Mathematisch Centrum.
 -1/142. Typed notes (syllabus) duplicated in offset.
 -143/163. Correspondence, list of participants, hw. notes by Heyting on the material presented, literature.
- C73.** *Rekursieve Functies en Turing Machines* (august 1973). Course given at the Mathematisch Centrum. Typed syllabus, duplicated in offset, 16 sh..
- C75-1/11.** Course on intuitionism intended for the University in Bielefeld, Germany. This course was never given since Heyting fell ill. Hw. notes by Heyting.

Group D. Miscellaneous [Diversen]

- D1.** Correspondence concerning the succession of E.W.Beth.
 -1/19. Correspondence concerning the appointment of A. Grzegorzcyk as visiting professor, first semester 1965-1966, in the chair of the late E.W.Beth.
 -20/49,28a,28b. Correspondence concerning the appointment of R. Montague as visiting professor, second semester 1965-1966, in the chair of the late E.W.Beth.
 -50/107. Correspondence concerning the choice of a definitive successor to the chair of the late E.W.Beth.
- D2.** Conflict around J. F. Staal, correspondence.
- D3.** Correspondence concerning the television course on logic by the Stichting Teleac (1966).
 -a-1/19. Correspondence.
 -b-1/3. Notes on the course material by Heyting, hw.
 -c. Stencilled course notes, 5 lectures.
- D4.** Evaluation of research proposals on behalf of Z.W.O. (Netherlands Organization for the Advancement of Pure Research). 31 sh.
- D5.** Congresses attended by Heyting, or to which he had been invited, and which did not result in a publication. The various congresses etc. have been ordered chronologically: D5-40 refers to a congress scheduled for 1940.
 -38-1/5. Meeting "Les Fondements et la Méthode dans les Sciences Mathématiques, 12-14 december 1938, Zürich. Heyting received an invitation but could not attend.
 -40-1/6. The International Congress of Mathematicians. Cambridge, Mass. 1940. Heyting had been invited but the congress was cancelled due to war circumstances.
 -54-1/4. The International Congress of Mathematicians. Amsterdam, 2-9 september 1954.

- 58. The International Congress of Mathematicians. Edinburgh, August 1958. Seating arrangement for the formal dinner.
- 61. Colloquium "Methodology of the Exact Sciences", 18-23 september 1961, Warsaw, Poland. Heyting had been invited but could not attend. (3 letters).
- 65. Eerste Nederlands Mathematisch Congres, 21-22 april 1965, Enschede. Programme schedules, lists of participants and lectures.
- 66. Tweede Nederlands Mathematisch Congres, 14-15 april 1966, Heerlen. Programme schedules, lists of participants and lectures.
- 66A-1/17. Fifth General Assembly of the International Mathematical Union, Dubna (USSR), August 13-15, 1966. Agenda opening session, opening speech, resolutions, list of members of the executive committee, list of delegates, financial report, general report.
- 66B. The International Congress of Mathematicians, Moscow, august 16-26, 1966.
 - 1/29. correspondence programme committee, -30/31 two letters, -32/39 reports on the meeting, -40/43 miscellaneous.
- 69. Tagung "Mathematische Logik", Mathematisches Forschungsinstitut, Oberwolfach (BRD), 23/29 march 1969. List of talks, 2 sh.
- 70-1/14. Conference in Mathematical Logic, Bedford College, London, 1970. Letter on hotel reservation, stencilled information on the meeting.
- 71-1/8. Cambridge Summer School in Mathematical Logic, 1971. Notes on the lectures in Heyting's hw.
- 71A. 4th International Congress for Logic, Methodology and Philosophy of Science, Bucarest, Rumania, 29 august till 4 september, 1971. Heyting was invited but could not attend. -1/8 correspondence concerning the invitation, -9 the second announcement.
- D6. Work of students of Heyting annotated by Heyting.**
 - a. J.G. Dijkman, Onderzoek van de negatieve convergentie in de intuïtionistische wiskunde (cc. ts., 8 sh., plus 1 sh. notes by Heyting).
 - b. H.M. de Jong, Uit de theorie van de complexstralen bij kwadriekenbundels en van bundels 3-de graadskrommen op een kwadriek. Hw. ms. with marginal notes by Heyting. Uncertain whether this essay has been composed as a "scriptie".
 - c. C.G. Gibson, the almost periodicity of etc. 3 sh. in hw., 2 annotated, 3rd notes by Heyting.
 - d.B. van Rootselaar, Un problème de M. Dijkman. Ts. with marginal notes by Heyting, 3 sh.
- D7. The contents of Heyting's mathematical library. Xerox copy of a card index prepared when Heyting's books were inserted into the library of the Mathematical institute (now Faculty of Mathematics and Computer Science) of the University of Amsterdam.**
- D8-1/4. Items which are fragmentary or hard to classify.**

Group F. Philosophical notes (Filosofische Aantekeningen)

Ordering of the material. The material has been written on paper of variable size and provenience, e.g. on the reverse sides of announcements of the Koninklijke Nederlandse Akademie van Wetenschappen, course notes, sheets from a diary, exercise books etc. The tools of writing are varied as well: stylo, pencil, ballpoint, a fineline felttip-pen. Most of the material was found in a red wrapper which bore the inscription "Filosofie". The material of this wrapper is divided into groups F1/18. What has been grouped together was found held together by a paperclip, a common wrapper, or represents an exercise book, or formed a single group because the sheets were quite obviously part of a single sequence.

In the text references to "Cretch and Krutch." must be read as referring to "Cretch and Crutchfield", "Duiker" refers to H.C. Duyker.

- F1-1/6.** 6 folio sheets, written in ink, on the backs of hectographed exercises. Presumably dating from the period 1930-1940.
- F2.** A single lined leaf with on both sides writing in rather faint pencil. Presumably also from the period 1930-1940. Heading: (definitie) begrip "gewaarwording".
- F3-1/5.** Five pages numbered with a red pencil top left, numbers encircled, with a heading "Solipsism" on the first page. The first page is dated 22-VI-1978, on the last page a date 26-VI-1978 occurs. In blue ballpoint on the backs of announcements, letters; paper not lined.

- F4-1/6.** Six sheets, numbered A1-A6 at the bottom in blue ballpoint. The first five are small lined sheets from a notebook, the last is a lined leaf from a larger notebook. The text is written in blue and black ballpoint and pencil. They bear headings in blue "Alg. Pol." (we are not certain of the reading of this heading) the first bears a date 25-VI-1978, the third and fourth 15-VI-1978, the sixth 31-V-1978.
- F5.** An exercise book with lined sheets and a brown cover. The notes are have dates in the margin and run from 4-VII-1978 till 21-3-1980.
- F6-1/13.** Some sheets of which the first bears the heading "Over solipsisme". Presumably written in preparation of a talk on the "filosofiedag" to be held at the Centrale Interfaculteit, Erasmus Universiteit Rotterdam, 20-IX-1980.
In the invitation for the "filosofiedag" it is stated that every participant announcing a talk is obliged to prepare an abstract of at least 150, at most 200 words for a programme booklet. The talks had a maximum duration of 20 minutes.
The sheets come from lined notebooks, the back contains letters form students, notes for courses etc. The text is written with a fine feltpen.
The first page is marked zero. The two pages are marked P1, P2 are obviously intended as abstract for the meeting. In the margin "100", "200" to keep track of the number of words used. The fourth page is headed "Noten", a fifth page contains a reference only. Then follow three pages numbered I, II, III in top right. A final leaf is headed "Angst voor solipsisme" bears a red "1" top left, and looks like the beginning of an essay on the theme, but contains only four lines. F6-11 till F6-13 is the invitation to the "filosofiedag".
- F7-1/12.** Two sheets from a diary marked F1, F2, containing some notes in blue ballpoint under 7-9 May, 14-15 May (not the date of the notes!). Then follow ten sheets numbered top left, written on blue ballpoint, the first on a piece of yellowed paper, the others on the backs of announcements. The first of these starts with: "zie agenda 7-15 mei".
- F8-1/33.** Papers collected in a wrapper with inscription "Genummerde Aantekeningen". There are a wrapper plus 32 sheets, numbered in black at the top left: 1/6, 7A/B, 8, 9A/D, 10A/E, 10F1, 10F2, 10G/J, 11, 12, 13A/B, 14/19. Paper in various sizes, sometimes from lined noteblocs, backs of various announcements etc. Text in blue ballpoint.
- F9-1/9.** A group of sheets starting with a narrow strip of paper (part of the back of a calendar leaf), followed by some sheets with notes on the transition from experience to science/mathematics. The notes refer, via dates, to F5. The narrow strip is not numbered, then follow, numbered in back, encircled, top right 1, 2, 3, 31, 4, 41, 5, 6. The paper of 1-5 is lined notebook paper, the backs of which have been used before; the last leaf is the back of a printed letter, unlined. The text is written with a fine feltpen.
- F10.** A single leaf "Uitbreiding van de betekenis van bestaan", dated 21-VII-1979. Blue ballpoint, back of an announcement of the KNAW.
- F11-1/8.** Eight sheets the first of which has a heading "Over het woord bestaan". These notes are written on the back of announcements of the KNAW, and must be of a date later than 2-V-1980 since this is the date on the back of one of the sheets. They are written in blue ballpoint on the backs of announcements etc., and marked in the top right "Bestaan 1, 2, ... , 8".
- F12.** Exercisebook representing a list of contents integrating F5 and F8.
- F13.** A single leaf with an excerpt from a publication of Dijksterhuis (on the back of an announcement of a colloquium of 7-I-1980). Blue ballpoint.
- F14-1/2.** Two sheets from a small-size lined writingbloc, in blue ballpoint. with excerpts from Malcolm, "Wittgenstein on the nature of mind", W.P.Oliver, "A sober look at solipsism", J.Wisdom, "Other minds", A.J.Ayer, "The terminology of sense data".
- F15.** Back of an invitation to attend an inaugural address. In black ballpoint "Humanisme, Huxley ..."
- F16-1/3.** Excerpt from W.B.Gallie, "Solipsistic and social theories of meaning". Five pages on three sheets of a lined notebloc, numbered 1-5 top right, black ballpoint.
- F17-1/13.** A bundle of sheets in a wrapper marked "Literatuur" Most of these are marked with a black "L". There is a summary of J.L.Austin, "How to do things with words",

and a number of other sheets where Heyting wrote down titles and authors of relevant publications.

F18-1/3. A typed summary of Russell, Human Knowledge (three pages).

Not in the wrapper marked "Filosofie":

F19-1/3. Xerox copy of three pages in English, under the heading "Does an external world exist?" Written by Heyting for his daughter-in-law, Mrs Heyting-Johnson, after a philosophical discussion in September 1979.

F20. Typed transcript of F1/19.

F21. A lined exercisebook with brown covers, containing miscellaneous remarks on mathematics, philosophy, abstracts of novels, etc.

G. Organizations; membership of societies etc. [Genootschappen]

G1. Académie Internationale de Philosophie des Sciences.

-a-1/10. Handwritten notes, by Heyting and M. Fréchet, for the "Notice sur les travaux scientifiques de M. A.N. Kolmogorov" (cf. the letter to the members of 20-1-1960). Recommendations for E. J. Dijksterhuis and A. Fraenkel typed by Heyting (cc. ts.)

-b-1/6. Correspondence.

-c. Financial balance, membership lists, Curriculum vitae of (proposed) members.

-d. Announcements of activities etc. dating from the period 1947-1976.

G2-1/46. Association for Symbolic Logic. Correspondence during Heyting's period as council member.

G3-1/13. E.W. Beth Stichting. Correspondence between Heyting and C.P.C. Beth-Pastoor, concerning the erection of the foundation, plus drafts of the statutes.

G4. Colloquium "Constructivity in Mathematics", Amsterdam 1957.

-a. Financial record. Book with hard cover.

-b. Official documents concerning the foundation erected for organizing the Colloquium (5 sh.).

-c. Reports on the Colloquium: 1/3 a three page scientific report by E.W. Beth (cc.), 4/11 general report and financial report by A. Heyting, part in English, part in Dutch (cc.).

-d. Stencilled announcement and programme (2 sh.).

-e-1/27. Set of stencilled abstracts of talks at the Colloquium.

-f. Markov's manuscript "Work of Soviet mathematicians in the domain of constructive analysis. Summary of the report." (f-1/4); Heyting's translation of the preceding (hw., f-5/7); Heyting's hw. translation of the abstract "On the principle of constructive selection" (f-8); Letter of Heyting to Markov concerning the publication of his paper(s) (f-9).

-g. cc. preface and table of contents (3 sh.).

G5. Genootschap voor wetenschappelijke filosofie. Membership list (1 sh.).

G6. Instituut voor Grondslagenonderzoek en Filosofie der exacte wetenschappen.

-a-1/11. Correspondence and documents concerning the creation of the institute.

-b-1/35. Correspondence concerning institute affairs, yearly progress reports.

-c-1/52. Visits of foreign scholars.

G7. International congress for Logic, Methodology and Philosophy of Science, Amsterdam 1967.

-a. Erection of a foundation for organizing the congress.

-b. Financing of the congress.

-c. Lists of invited speakers etc.

-d. Miscellaneous correspondence concerning the congress.

-e. Opening and closing speech by Heyting, typescripts.

-f. Printed folder, printed provisional programme, congress bulletins, statistics of contributed papers, lists of participants, membership lists of several committees, report on the congress.

G8. International Union of History and Philosophy of Science.

-a-1/38. Correspondence concerning the relations between (1) the International Union for Logic, Methodology and Philosophy of Science (I.U.P.S. = U.I.P.S.), (2) the International Mathematical Union (I.M.U.), (3) the International Union for the History of science (I.U.H.S.), (4) the International Council of Scientific Unions (I.C.S.U.).

-b-1/34. Correspondence concerning the International union of History and Philosophy of science (I.U.H.P.S.), Division of Logic, Methodology and Philosophy of science (D.L.M.P.S.).

- c-1/46. Correspondence concerning the editing of the "Chroniques de Philosophie", section "Philosophie des sciences", sponsored by the I.U.P.S. (1954-1958).
- G9-1/27.** Koninklijke Nederlandse Akademie van Wetenschappen, Sectie Wiskunde. Correspondence, reports of meetings etc.
- G10.** Nederlandse Vereniging voor Logica en Wijsbegeerte der Exacte wetenschappen.
 - a. Announcements of meetings, 1953-1978.
 - b. On the position of philosophy as a discipline at Dutch Universities.
 - c. Statutes and membership list of the association.
 - d. Year reports, reports on conferences etc.
 - e-1/40. Correspondence of Heyting connected with work for the council of the association.
- G11.** Signifische Studieclub (and "Internationaal Signifisch Genootschap"). Reports of the meetings of the group; mostly stencilled, a few cc. of ts. Under the heading "11 april" there is a stencilled text "Inleiding van den heer A. Heyting over 'De rol van de taal in de intuïtionistische wiskunde' ".
 - a. Lists of subjects for studies in significs; catalogue of the significs library; reports of meetings 24-XII-1940, 29-XII-1940, 1-II-1941, 15-II-1941, 15-III-1941, 24-III-1941, 5-IV-1941, 3-V-1941, 31-V-1941, 28-VI-1941, 6-IX-1941, 4-X-1941, 11-4-1942(?), 23-IV-1942(?), 17-X-1942(?), 6-XII-1942(?), 10-I-1943(?); some material concerning meetings after 1945.
 - b. Discussion of verification in various disciplines.
 - c. Reports of the meetings of a group discussing mass-psychology.
 - d. Miscellanea.
- G12.** Symposium on "Mathematical Interpretation of Formal Systems", Amsterdam 1954.
 - a. Preliminary correspondence on invitations (3 sh.).
 - b. Provisional programme.
 - c. Two letters.
 - d. Programme and abstracts (7 sh.)
 - e. Preface, table of contents, author's addresses for the Proceedings (cc. ts.)
- G13.** Vereeniging "Het Nederlands Natuur-en Geneeskundig Congres". Printed communication of 17-X-1970.
- G14.** Het Wiskundig Genootschap.
 - a-1/19. Correspondence concerning the editing of the "Nieuw archief voor Wiskunde".
 - b-1/47. Correspondence and reports on the Prize Questions.
- G15.** Euratom Group.
 - a-1/15. Correspondence.
 - b-1/9. Progress reports; summary of character and aims of the group. Items b-3/9 are copies from the Beth Archives (27 sheets).
- G16.** Committee "Modernisering Leerplan Wiskunde". Declaration of expenses made by Heyting in his quality of member of the committee (3 sh.)

L. Biographical material [Leven]

- L1-1/23.** Testimonials, diploma's etc.; copies of letters of Brouwer concerning Heyting's appointment as a full professor. Testimonial of inoculation for smallpox; diploma H.B.S.; notes obtained in his finals; examination for admission to the university; testimonial military service; diploma "kandidaatsexamen", diploma "doctoraalexamen"; diploma of his appointment as "Ridder in de orde van de Nederlandse Leeuw" (= newspapercutting); correspondence concerning Heyting's appointment as professor. Almost all Xeroxcopies.
- L2.** Leaving the Mathematical Institute, 1968 (1/23 congratulatory letters to Heyting, 23/31 correspondence providing material for speeches on occasion of Heyting's farewell); the celebration of the golden doctorate, 1975 L2-32/36). For pictures see under L14.
- L3-1/15.** Death and burial. Mourning circular, mourning advertisements, text of speeches at the cremation announcement; request to publish a notice in "The Mathematical Intelligencer"; programme of the wintersymposium of the "Nederlandse Vereniging voor Logica en Wijsbegeerte van de exacte Wetenschappen" on 31-I-1981, and the Anglo-Dutch Logic Colloquium on 31-I and 1-II-1981.
- L4.** Obituaries etc. Cf. also L16.

- a. The Times, 30-VII-1980 (D. S. Scott). Xerox newspapercutting.
 - b. Verslagen van de Vergaderingen van de Afdeling Natuurkunde, Koninklijke Nederlandse Akademie van wetenschappen 89 (1980), meeting of september 27,1980 (Xerox, 2 sh.). b' is another copy.
 - c. NRC-Handelsblad, 12-VII-1980, page 3: "Arend Heyting, helder docent filosofie wiskunde" (H. Freudenthal). Newspaper cutting.
 - d. Folia Civitatis, 6-IX-1980: In memoriam prof. Heyting, grondlegger van de intuitionistische rekenkunde (D. van Dalen). Newspaper cutting.
- L5-1/15.** Genealogical information: genealogical tree, list of questions with answers given by J.F. Heyting-van Anrooij, article in NRC-Handelsblad (26-VII-1985) by Lien Heyting, on Angerlo, the village from which Heyting's father came.
- L6-1/8.** Heyting and the occupation by the Germans. Documents connected with Heyting's "berisping" of august 24, 1945. See on this affair also group B under O. Bottema.
- L7-1/15.** Heyting's answers to the "Strong Beroepen Interessen Vragenlijst" (a questionnaire devised to establish correlations between profession and interests).
- L8-1/4.** Colour photographs of flowers made by Heyting.
- L9.** Heyting on the spelling of the dutch language. (5 sh. in hw.).
- L10.** Heyting and chess. Correspondence with L.Prins of "Het Parool" on chess problems (9 sh.).
- L11.** "Het paradijs". Ms. in which Heyting describes some memories of his youth (Xerox ms., 2 sh.).
- L12.** "Dood van een paus". Ms. of a television play, written by Heyting under the pseudonym Hein Rinkel (Xerox of ms., 22 sh.).
- L13.** "Geest en stof op Mars", a science fiction story written by Heyting under the pseudonym Hein Rinkel (Xeroxcopy of ts., 48 sh.).
- L14.** Photographs of Heyting.
- 1. Heyting, 4 years old, ca1902,
 - 2. The Heyting family ca 1921 (copy). In front, from left to right: Clara (1909-1981), Johannes (1865-1948), Clarissa Elizabeth Kok (1869-1950), Arend (1898-1980); second row, from left to right: Henri (1904-1974), Theodora (1902-19...), Jan (1900-1974).
 - 3. Heyting in May 1928 (copy); -3a negative made after the original of L14-3.
 - 4. School photograph, 1-IV-1930. Heyting appears in the last row, nr. 7 to the right of the tree trunk.
 - 5. School photograph, 22-III-1931. Heyting appears in the middle row, second from right.
 - 6. Photograph of the teacher's body of Heyting's school, undated; Heyting appears at the back before the right side of the front entrance.
 - 7. Final examinations, Winschoten, 27-VI-1939 (Heyting as member of the examination committee).
 - 8. Thesis defense of J.J. Berghuys S.J., 2-VII-1952.
 - 9. Heyting at the professor's dinner, Carlton Hotel, Amsterdam, 13-III-1953.
 - 10. Thesis defense of B. van Rootselaar, 1954.
 - 11. Heyting as a member of the examination committee ("gecommitterde") during the final examinations, with the teachers of the Jansonius Lyceum, Hulst, june 1957 (Heyting appears as third from right, front row).
 - 12. Heyting in the dunes of Meyendel near the Hague; photo from the period 1954-1959.
 - 13. Heyting on the occasion of the farewell reception of H.Schuurman, porter and amanuensis of the Mathematical Institute, 25-IV-1956.
 - 14. A group photograph taken on the same occasion.
 - 15. Symposium Constructivity in Mathematics, Amsterdam, august 1957; 15a Explanatory table with names to L14-15.
 - 16. Symposium of the Académie Internationale de Phil. des Sciences, Brussels, undated (in the fifties, presumably).
 - 17. 150th anniversary of the Koninklijke Akademie van Wetenschappen, Amsterdam 1958 (Heyting in the front row).
 - 18. Symposium at Berkeley, january 1958. The symposium was attended by Heyting, although he does not appear in this photograph.
 - 19. Heyting with A. Mostowski, Colloquim at Clermont-Ferrand, 1962.
 - 20/22. On the occasion of the retirement of mrs. Peters, cleaning woman of the Mathematical Institute.
 - 23/24. Thesis defense of A.S.Troelstra, 15-VI-1966.

- 25. Asjwinikumar, thesis student of Heyting, with A. Grzegorzcyk in front of the town hall of Graft, Noord-Holland (1964 or 1965).
- 26. Heyting in New York, 1968.
- 27. Reception after the valedictory lecture. Left G.B. van Albada, prof. Stomps in the middle (1968).
- 28/29. Brouwer's bust at the Academy of Sciences revealed, 24-II-1968.
- 30/31. Heyting at the reception on occasion of the inaugural address of B. van Rootselaar.
- 32. Asjwinikumar, former thesis student of Heyting, with wife and child.
- 33. Bedford College, August 1970. Heyting appears first row, standing left. 33a/b: Explanatory table to the preceding picture.
- 34. Heyting around 1970; 34a duplicate.
- 35. Conference at Santa Margarita, 1973.
- 36. The golden doctorate, 1975. A.S. Troelstra; 36a duplicate.
- 37. The golden doctorate, 1975. N.G. de Bruijn; 37a duplicate.
- 38. The golden doctorate, 1975. N.G. de Bruijn in front of the audience.
- 39. The golden doctorate, 1975. Heyting and A.S. Troelstra; 39a duplicate.
- 40. The golden doctorate, 1975. The audience. Front right to left: A.B. Paalman de Miranda, J. van Witsen, D. van Dulst, D.H.J. de Jongh.
- 41. The golden doctorate, 1975. Heyting standing; 41a duplicate.
- 42. The golden doctorate, 1975. People moving in. Heyting and his wife in the foreground; 42a dupl.
- 43. The golden doctorate, 1975. Afterwards at the reception. Heyting in the middle.
- 44. The golden doctorate, 1975. Heyting's daughters; Lien Heyting on the right.
- 45. The golden doctorate, 1975. The audience.
- 46. The golden doctorate, 1975. Negatives and contact prints of L14-36/45.
- 47. Reception on the occasion of the retirement of Judith van Witsen, secretary of the Mathematical Institute, 30-III-1979; 47a duplicate.

L15-1/45. Legenda and exhibits used in a small exhibition on Heyting's life and work. Mathematical Institute of the University of Amsterdam, 1981.

L16. Papers on Heyting's life and work.

- a. A.S. Troelstra, The scientific work of A. Heyting. *Compositio Mathematica* 20 (1968), 3-12. Offprint.
- b. A.S. Troelstra, Arend Heyting (9 mei 1898-9 juli 1980). *Jaarboek van de Koninklijke Nederlandse Akademie van Wetenschappen* 1980. Appeared 1981. Offprint.
- c. A.S. Troelstra, Arend Heyting and his contribution to intuitionism. *Nieuw Archief voor Wiskunde* (3), 29 (1981), 1-23. Offprint.
- d. A.S. Troelstra, Logic in the writings of Brouwer and Heyting. In: *Atti del Convegno Internazionale di Storia della Logica, San Gimignano, 4-8 dicembre 1982*. CLUEB, Bologna 1983, 193-210. Offprint.
- e. A.S. Troelstra, On the early history of intuitionistic logic. Preprint, to appear in the proceedings of "Heyting'88", conference at Chaika near Varna, Bulgaria, september 1988. Offprint + poster of the conference.
- f. D. van Dalen, Heyting and geometry. To appear in the proceedings of "Heyting'88", conference at Chaika near Varna, Bulgaria, september 1988.
- g-1/28. A.S. Troelstra, Commentary on: A. Heyting on the formalization of intuitionistic mathematics. In: E.M.J. Bertin, H.J.M. Bos, A.W. Grootendorst (editors), *Two decades of mathematics in the Netherlands*. Mathematical Centre, Amsterdam 1978, 153-162 (reproduction of part of P30), 163-175 (commentary). Correspondence with the editors, ts. of a longer version of the commentary, Xerox of the slightly abbreviated version which was published.
- h. A.S. Troelstra, article on Heyting for the *Biografisch Woordenboek van Nederland*. Ts. copy, to appear (6 sh.).

P.Publications [Publicaties]

In the file for each publication we have brought together all material connected with the publication, including information on the congress where the lecture was delivered which resulted in the paper in the congress proceedings, correspondence concerning the invitation, etc. For lectures not resulting in a publication see under group V; for congresses attended by Heyting which did not result in a paper see also under group D. P00 is a bibliography which appeared in *Nieuw Archief voor Wiskunde* (3). Except for P00 and P97/99 the order is chronological, so P56 refers to a publication from 1956, etc. We have kept to the chronology of P00 whenever possible, even if the year indicated there is not always correct.

- P25.** *Intuitionistische Axiomatiek der Projectieve Meetkunde* (Dutch). Proefschrift, University of Amsterdam. P. Noordhoff, Groningen.
- a. Menu of the promotion dinner, 27-V-1925, Amsterdam.
 - b. Ms. starting with "Wijzigingen in hoofdstuk 1" etc. (4 sh.).
 - c. Photocopy of three small pages in the hw. of L.E.J. Brouwer, containing the text of his speech on occasion of the conferment of the doctorate (2 sh.). c' is another copy.
 - d. Typed transcript of c (two sh.).
 - e. Covering letter of c and d (W.Heyting to A.S. Troelstra).
- P26.** *Technische Vaardigheid* (Dutch). *Bijvoegsel van het Nieuw Tijdschrift voor Wiskunde gewijd aan onderwijsbelangen* 3 (1925-1926). Offprint.
- P27.** Die Theorie der linearen Gleichungen in einer Zahlenspezies mit nicht kommutativer Multiplikation. *Mathematische Annalen* 98, 465-490.
- a. Offprint.
 - b. Translation into French by N. Dequoy. Cc. of ts.: title, table of contents + 33 sh..
- P27A.** Zur intuitionistischen Axiomatik der projektiven Geometrie. *Mathematische Annalen* 98, 491-538 (1927A in P00). Offprint.
- P29.** De telbaarheidspredicaten van Prof. Brouwer (Dutch). *Nieuw Archief voor Wiskunde* (2) 16, 47-58.. No material present.
- P30.** Die formalen Regeln der intuitionistischen Logik. *Sitzungsberichte der preussischen Akademie von Wissenschaften, physikalisch-mathematische Klasse*, 1930, 42-56.
- a. Single leaf in Heyting's hw., presumably from an early draft of the papers P30, P30A, P30B. The page is crossed out, but at the top, in pencil, Heyting noted "Bewaren". a' is a Xerox-copy of P30-a.
 - b. List of topics for prize-essays of the "Wiskundig Genootschap" (the Dutch Mathematical Association) for 1927. Two pages, Xeroxed. No.9 refers to Heyting's topic.
 - c. Xeroxed page from the report on the 149th general meeting of the "Wiskundig Genootschap" (1928) announcing that Heyting's essay was crowned.
 - d. Report of the committee for the prize-essays (G.Mannoury, J. Wolff, F. Schuh) on Heyting's prize essay (5 sh., typed).
 - e. Offprint.
 - f. Review of P30/30B in the *Deutsche Literaturzeitung*, 1930, Heft 6, November 15, column 2202-2208 (4 sh.).
- P30A.** Die formalen Regeln der intuitionistischen Mathematik II. *Sitzungsberichte der preussischen Akademie von Wissenschaften, physikalisch-mathematische Klasse*, 1930, 57-71. Offprint; see also under P30.
- P30B.** Die formalen Regeln der intuitionistischen Mathematik III. *Sitzungsberichte der preussischen Akademie von Wissenschaften, physikalisch-mathematische Klasse*, 1930, 158-169. Offprint; see also under P30.
- P30C.** Sur la logique intuitionniste. *Académie Royale de Belgique. Bulletins de la classe des Sciences* (5) 16, 957-963.
- a. Letter of L.E.J. Brouwer to Th. de Donder, 13-VI-1930 (Xeroxcopy of a carbon copy).

- b. Th. de Donder to L.E.J. Brouwer, 18-VI-1930. (Xeroxcopy of a letter written by hand, 2 sh.).
- c. L.E.J. Brouwer to Th. de Donder, 9-X-1930 (Xeroxcopy of a cc.). In this letter Brouwer abolishes the idea of replying to Barzin and Errera, because of the appearance of Heyting's paper.
- P31.** Die intuitionistische Grundlegung der Mathematik. *Erkenntnis* 2, 106-115. See under the correspondence (B) under Reichenbach and Reidemeister. No material in this file.
- P31A.** Die intuitionistische Mathematik. *Forschungen und Fortschritte* 7, 38-39. No material in the file.
- P32.** A propos d'un article de MM. Barzin et Errera. *Enseignement Mathématique* 31, 121-122. No material in the file.
- P32A.** Réponse à MM. Barzin et Errera. *Enseignement Mathématique* 31, 271-272. No material in the file.
- P32B.** Réponse à MM. Barzin et Errera. *Enseignement Mathématique* 31, 274-275. No material in the file.
- P32C.** Anwendung der intuitionistischen Logik auf die Definition der Vollständigkeit eines Kalküls. In: Walter Saxer (ed.), *Verhandlungen des Internationalen Mathematiker-Kongresses Zürich 1932 II*. Orell Füssli, Zürich, 344-345. Offprint.
- P34.** *Mathematische Grundlagenforschung. Intuitionismus. Beweistheorie*. Springer verlag, Berlin. See under correspondence (B) K. Gödel, O. Neugebauer, H.A. Schmidt. No material in this file. A photographic reprint appeared in 1974.
- P35.** Intuitionistische Wiskunde (Dutch). *Mathematika B* 4 (1935-1936), 72-83. No material in this file.
- P35A.** Intuitionistische Wiskunde (Dutch). *Mathematika B* 4 (1935-1936), 123-128. No material in this file.
- P35B.** Intuitionistische Wiskunde (Dutch). *Mathematika B* 4 (1935-1936), 129-136. No material in this file.
- P35C.** De strijd over de grondslagen van de wiskunde (Dutch). *Handelingen van het XXVe Natuur- en Geneeskundig Congres gehouden te Leiden op 23,24,25 April 1935*. Ruijgrok & Co., Haarlem, 94-97. Offprint plus Xerox of 4 sh.
- P36.** Intuitionistische Wiskunde (Dutch). *Mathematika B* 5 (1936-1937), 62-80. No material in this file.
- P36A.** Intuitionistische Wiskunde (Dutch). *Mathematika B* 5 (1936-1937), 105-112. No material in this file.
- P36C.** *De ontwikkeling van de intuïtionistische Wiskunde* (Dutch). P. Noordhoff, Groningen-Batavia. Also: *Euclides* 13 (1936-1937), 129-144. No material in this file.
- P37.** Bemerkungen zum Aufsatz von Herrn Freudenthal "Zur intuitionistischen Deutung logischer Formeln". *Compositio Mathematica* 4, 117-118. Offprint.
- P37A.** *Ruimteleer en Axiomatiek* (Dutch). Openbare les, gegeven bij de aanvaarding van het ambt van lector aan de Universiteit van Amsterdam op 27 september 1937 (Dutch). P. Noordhoff, Groningen- Batavia 1937. Offprint.
- P38.** Intuitionistische Wiskunde (Dutch). *Mathematika B* 7 (1938-1939), 129-142. Offprint.
- P39.** Les fondements des mathématiques du point de vue intuitionniste. In: *Philosophie Mathématique*, Hermann & Cie, Paris 1939, 73-75 (not in P00). See also group B under Gonseth. Xerox of the title page of the congressvolume + 3 pages of the paper.
- P40.** Wiskundige strengheid in wetenschap en school (Dutch). *Verslag 5e Nederlands Congres van leraren in de wiskunde en natuurwetenschappen, gehouden op 28 maart 1940 te Amsterdam*. J.B. Wolters, Groningen- Batavia 1940, 15-27. Also: *Euclides* 17 (1940-1941), 79- 93 .
 - a. Offprint.
 - b. Notes for a talk in Heyting's hw., found in a cover inscribed "Pi (Arnhem)" (1 sh.).

- P41.** Untersuchungen über intuitionistische Algebra. *Verhandelingen der Nederlandsche Akademie van Wetenschappen, afdeling Natuurkunde, 1ste sectie*, 18, no.2, 36 pages.
 -a. Letter of J. Staples to Heyting, 15-III-1974 (1 sh.).
 -b. Letter of Heyting to J. Staples, 21-III-1974 (2 sh.).
 -c. English translation of P41 by J. Staples (ts., 48 sh.).
- P46.** On weakened quantification. *The Journal of Symbolic Logic* 11, 119-120. No material in the file.
- P46A.** *Matrices en determinanten* (Dutch). Servire, den Haag. A copy of the book (kept in a box "Publications, books" outside the regular sequence of group P).
- P46B.** Punten in het oneindige (Dutch). *Euclides* 22 (1946-1947), 106-118. No material in the file.
- P47.** Taal en teken in de wiskunde (Dutch). *Algemeen Nederlands Tijdschrift voor Wijsbegeerte en Psychologie* 40 (1947-1948), 121-131. No material in this file.
- P47A.** Formal logic and mathematics. *Synthese* 6 (1947-1948), 275-282. No material in this file.
- P49.** *Spanningen in de wiskunde. Rede uitgesproken bij de aanvaarding van het ambt van hoogleraar aan de Universiteit van Amsterdam op 16 mei 1949* (Dutch). P. Noordhoff, Groningen-Batavia. Also: *Euclides* 25 (1949-1950), 233-236, 301-312. Offprint.
- P51.** L'axiomatique intuitionniste. In: Raymond Bayer (ed.), *Philosophie des Sciences, Paris 1949. II. Logique*. Hermann & Cie, Paris 1951, 81-86. No material in this file.
- P51A.** Note on the Riesz-Fischer theorem. *Proceedings Koninklijke Nederlandse Akademie van Wetenschappen, Series A* 54 = *Indagationes Mathematicae* 13 (1951), 35-40. No material in this file.
- P53.** Espace de Hilbert et intuitionnisme. In: *Les méthodes formelles en axiomatique. Colloques internationaux du C.N.R.S., Paris 1950*. Centre National de la Recherche Scientifique, Paris 1953, 59-63. Hw. notes marked top left "Parijs 1950", found together with notes marked "W.G. 42" (talk for the "Wiskundig Genootschap"? See V42). Three sh..
- P53A.** Sur la tâche de la philosophie des Mathématiques. In: *Proceedings of the XIth International Congress of Philosophy, Brussels, 20-26 august 1953*, V. North-Holland Publ. Co., Amsterdam, and E. Nauwelaerts, Louvain, 193-198. No material in this file.
- P53B.** Sur la théorie intuitionniste de la mesure. *Bulletin de la Société Mathématique de Belgique* 6 (1954), 70-78.
 -a. Covering letter plus cc. ts. (9 sh.)
 -b. Offprint.
- P54.** Logique et intuitionnisme. In: *Applications scientifiques de la logique mathématique. Actes du 2e colloque international de logique mathématique. Paris août 1952*. Gauthier-villars, Paris, and E. Nauwelaerts, Louvain, 1954, 75-82. Offprint.
- P54A.** Over de betekenis van het wiskundig werk van G.F.C. Griss (Dutch). *Algemeen Nederlands Tijdschrift voor Wijsbegeerte en Psychologie* 47 (1954-1955), 8-12. Offprint.
- P54B.** G.F.C. Griss and his negationless intuitionistic mathematics. *Synthese* 9, 91-96. No material in this file.
- P55.** *Les fondements des mathématiques. Intuitionnisme. Théorie de la démonstration*. Gauthier-Villars, Paris and E. Nauwelaerts, Louvain. See also group B under Destouches- Février.
 -a. Hw. notes by Heyting (4 sh.).
 -b. Publishers announcement (1 sh.).
 -c. Letter of Heyting to the publisher, 12-II-1953 (1 sh., cc. ts.)

- P56.** *Intuitionism, an introduction.* North-Holland Publ. Co., Amsterdam. 2nd ed.1966, 3rd ed. 1971.
- a. Reports of sales (9 sh.).
 - b. Agreement with the publisher.
 - c. Correspondence concerning translations/reproductions of (parts of) the book (14 sh.. For correspondence concerning the french translation see under group B., Bessièrè. See also group B, Putnam.
 - d. Correspondence concerning the various editions (4 sh.).
 - e. Ts. preface second edition.
 - f. Draft revision third edition, hw. (4 sh.).
 - g. Review in *The Review of Metaphysics*, 20(1966), 153.
 - h. Offprint translation of chapter 1 in *Aplikace Matematiky* 11(1966), 242-250.
 - i. First page of italian translation of chapter 1 (Xerox).
 - j. Ts. of the French translation. Pages numbered V-IX, 1-142, preceded by five sh. with corrections. See also group B under Bessièrè.
- P56A.** La conception intuitionniste de la logique. *Les études philosophiques* 11, 226-233. No material in the file.
- P56B.** Toelichting (Dutch). *Euclides* 32(1956-1957), 295-297.
- a. Sheet in hw., pencil.
 - b. Ts. (2 sh.).
 - c. Offprint.
- P56C.** In memoriam G. Mannoury. *Folia Civitatis* 1956.
- a. Covering letter.
 - b. Cc. ts. (2 sh.).
- P58.** La théorie élémentaire de l'intégration en mathématiques intuitionnistes. In: *Le raisonnement en mathématiques et en sciences expérimentales. Colloques internationaux du C.N.R.S., Paris 1955.* Centre National de la Recherche Scientifique, Paris 1958, 85-90).
- a. Ms. headed "Voordracht Parijs 1955" (4 sh.).
 - b. Cc. ts. (11 sh.).
 - c. Offprint.
 - d. Letter of acceptance of the invitation by Heyting (cc., 2 sh.).
- P58A.** Blick von de intuitionistischen Werte. *Dialectica* 12, 332-345.
- a. Ts. (18 sh.).
 - b. Typed summary (2 sh.).
 - c. Letters of Heyting to F. Gonseth (2 sh.).
- P58B.** Over Waarheid in de Wiskunde (De la vérité dans les mathématiques. On truth in mathematics). In: *Verslag van de plechtige viering van het honderdvijftigjarig bestaan der Koninklijke Nederlandse Akademie van Wetenschappen met de teksten der bij die gelegenheid gehouden redevoeringen en voordrachten.* North-Holland Publ. Co., Amsterdam 1958. Dutch 128-130, French 204-206, English 277-279.
- a. Communications of the ministry of education, 1958, nr. 19. Issue devoted to the 150th anniversary of the Academy with a summary of Heyting's talk.
 - b. Table arrangement for the special dinner.
 - c. Summary of Heyting's talk (Dutch), cc. ts. (1 sh.).
 - d. Ts. of the Dutch text, with many additions in hw. (9 sh.).
 - e. Ts. of the English version of the paper.
 - f. Offprint Dutch version.
 - g. Offprint English version.
 - h. Offprint French version.
- P58C.** Intuitionism in mathematics. In: R. Klibansky (ed.), *Philosophy in the mid-century. A survey.* La nuova Italia editrice, Firenze 1958, 101-115.
- a. Cc. letter of Heyting to R. Klibansky, 14-III-1957 (2 sh.).
 - b. Cc. ts. (12 sh.).
- P58D.** Een benaderingsconstructie voor de trisectie van een hoek (Dutch). *Nieuw Tijdschrift voor Wiskunde* 56 (1958-1959), 137-138.

- a. Cc. covering letter plus ts. (2 sh.).
- b. Offprint.
- P58E.** Mannoury's "Methodologisches und Philosophisches zur Elementarmathematik". *Synthese* 10A, 440-444.
 - a. Cc. ts. (3 sh.)
 - b. Offprint.
- P59.** Some remarks on intuitionism. In: A. Heyting (editor), *Constructivity in Mathematics. Proceedings Colloquium Amsterdam 1957*. North-Holland Publ. Co., Amsterdam, 69-71. Material found in a cover with inscribed "Amsterdam 1959".
 - a. Hw. ms. (2 sh.).
 - b. Cc. ts. (3 sh.).
- P59A.** Axioms for intuitionistic plane affine geometry. In L.Henkin, P.Suppes, A.Tarski (eds.), *The axiomatic method, with special references to geometry and physics*. North-Holland Publ. Co., Amsterdam, 160-173. Paper based on a talk given at Berkeley, Jan. 1958.
 - a. Ms. summary of the talk, titled "Axioms for intuitionistic plane affine geometry".
 - b. Ts. summary (3 sh.).
 - c. Stencilled version of the summary (4 sh.).
 - d. Ms. of the talk, referring to the summary (5 sh.).
 - e. The same, ts. (3 sh.).
 - f. Draft in Dutch (11 sh.).
 - f*. Another draft in Dutch (6 sh.).
 - g. Ms. in English, titled "Axioms for intuitionistic plane affine geometry. Proofs." (8 sh.).
 - h. Hw. draft in English, titled "Axioms for intuitionistic affine plane geometry" (29 sh.).
 - i. Ts. for the printer (18 sh.).
 - j. Review by G. Kreisel, *Mathematical Reviews*.
 - k. Correspondence concerning Heyting's participation in the Symposium "The axiomatic method", Berkely, jan. 1958 (28 sh.).
- P59B.** Obituary of D. van Dantzig for *Folia Civitatis*, 1959 (not in P00). Cc. ts., two sh..
- P60.** Remarques sur le constructivisme. *Logique et Analyse* 3, 177-182.
 - a. Ts. (7 sh.).
 - b. Offprint.
 - c. Covering letter for the ms..
- P61.** Infinitistic methods from a finitist point of view. In: *Proceedings of the symposium on foundations of mathematics, Warsw, 2-9 september, 1959*. Pergamon, Oxford, and PWN, Warszawa, 185-192.
 - a. Cc. typed summary (1 sh.).
 - b. Ts. paper (9 sh.).
 - c. Stencilled list of foreign participants.
 - d. Stencilled provisional programme (3 sh.).
 - e. Stencilled programme (2 sh.).
 - f. Heyting's report on his Polish journey (cc., 1 sh.).
 - g. Offprint.
 - h. Covering letter for the ms. (cc.).
- P61A.** Axiomatic method and intuitionism. In: Y. Bar-Hillel, J. Poznanski, M.O. Rabin (eds.), *Essays on the foundations of mathematics*. Magnes Press, Hebrew University, Jerusalem 1961, and North-Holland Publ. Co., Amsterdam 1962, 237-247.
 - a. Cc. ts., 13 sh..
 - b. Cc. covering letter.
- P62A.** Méthodes et problèmes de l'intuitionnisme. *Annales de la Faculté des Sciences de l'Université de Clermont* 7, 101-105 (1962A in P00. N.B. Due to an oversight there is no "1962" in P00).
 - a. Hw. notes marked "CF Aant 1" (1 sh.).
 - b. Ts. with two hw. pages at the end (11 sh.).

- c. Offprint plus title page (4 sh.).
 - d. Printed programme of the Colloque des Mathématiques.
 - e. Printed general programme of the Pascal centennial.
 - f. Stencilled list of participants etc. (5 sh.).
 - g. Stencilled list of talks for the "Colloque de Mathématique" (3 sh.).
 - h. Stencilled programme of the "Colloque" (4 sh.).
 - i. Correspondence (4 sh.).
- P62B.** After thirty years. In: E. Nagel, P. Suppes, A. Tarski (eds.), *Logic, Methodology and Philosophy of Science. Proceedings of the 1960 International Congress*. Stanford University Press, Stanford, 194-197 (1962B in P00). The congress as held in August 1960.
- a. Invitation to speak in Yale (24-VIII-1960); letter of Heyting offering to speak at Austin, Texas.
 - b. Text of the talk at the congress (9 sh.).
 - c. Cc. ts. of the paper (7 sh.).
 - d. Offprint.
 - e. Cc. covering letter of the ms. (2 sh.).
 - f. Letter of Heyting to M. Tirnoveau of 14-IX-1966 concerning reproduction of the paper.
- P63.** *Axiomatic projective geometry*. P. Noordhoff, Groningen, and North-Holland Publ. Co., Amsterdam. 2nd edition 1980.
- a. Reports of sales first edition (4 sh.).
 - b. Correspondence 2nd edition (5 sh.).
 - c. Ts. of corrections and additions 2nd edition (9 sh.).
 - d. Hw. notes for corrections 2nd edition (37 sh.).
 - e. Some leaves of a notebook, mostly concerned with the 2nd edition (9 sh.).
 - f. Review by H. Vogler in *Internationale Mathematische Nachrichten*, May 1965, nr.80 (2 copies).
 - g. Review by H. Levi, *American Mathematical Monthly*, June/July 1965.
 - h. Review by P. Gerl in *Monatshefte für Mathematik* 68 (1964), Heft 3.
 - i. Review by G. Pickert in *Zentralblatt* 114.
 - j. The same review as i in *Mathematical Reviews* 28, nr.4413 (1964).
 - k. Review by O. Bottema (appeared where? Cc. ts., 2 sh.).
 - l. 5 sh. with corrections supplied by students, found in Heyting's copy.
 - m. Heyting's copy of the first edition (kept in a box "Publications, books" outside the regular sequence of group P).
- P63A.** Les notions fondamentales de la géométrie (abstract). In: *Atti del VII Congresso dell'Unione Matematica Italiana*. Edizione Cremonese, Genova, 370. The congress was held in Genoa, 30 September to 5 October, 1963.
- a. Programme of the congress.
 - b. Hw. notes for Heyting's talk (5 sh.).
 - c. Notes made in connection with the talk (5 sh.).
 - d. Cc. ts. of the abstract.
 - e. Offprint.
 - f. Heyting's report on the meeting (Cc., 3 sh.).
- P64.** *Projectieve Meetkunde* (Dutch). P. Noordhoff, Groningen (undated); 2nd edition Wolters-Noordhoff, Groningen 1970, 3rd edition 1973, Reprint paperback 3rd edition Epsilon Uitgaven, Utrecht 1986.
- a. Review by O. Bottema (appeared where? Cc. ts., 2 sh.).
 - b. Review by S.C. van Veen, *Tijdschrift voor Kadaster en Landmeetkunde*, April 1965, 111-113.
 - c. Review by S.C. van Veen, *Nieuw Archief voor Wiskunde*, March 1965, p. 73.
 - d. Review by P.G.J. Vredenduin, *Euclides*, 1-II-1965, p. 156.
 - e. Review by J.B. in *Simon Stevin*, June-Oct. 1965.
 - f. Copy of the first edition (kept in a box "Publications, books" outside the regular sequence of group P).
 - g. Copy of the second edition (kept in a box "Publications, books" outside the regular sequence of group P).
 - h. Copy of the third edition (kept in a box "Publications, books" outside the regular sequence of group P).

- i. Copy of the fourth edition (kept in a box "Publications, books" outside the regular sequence of group P).
- j. List of corrections to be made in the first edition, with covering letter (carbon copy, 4 sh.).
- P64A.** Prof. dr. E.W. Beth in memoriam. *Wiskundige en filosoof. Nieuwe Rotterdamsche Courant* 16-IV-1964 (not in P00).
 - a. Cc. ts. (3 sh.).
 - b. Newspaper cutting.
- P64B.** Curriculum vitae E. W. Beth, 1964 (published where? Not in P00; perhaps in special issue of *Synthese*). Cc. ts. with covering letter (3 sh.).
- P64C.** In memoriam prof. dr. E.W. Beth. *Folia Civitatis* 26-IV-1964 (not in P00). Found in folder inscribed "E.W. Beth in memoriam" Also in the folder was a copy of the ms. "E.W. Beth 1908-1964" by J.F. Staal.
 - a. Cc. ts. (2 sh.).
 - b. Newspaper cutting.
 - c. Letter concerning republication in the *Amsterdamsche Studenten Almanak*.
- P66.** Remarques sur la théorie intuitionniste des espaces linéaires. *Synthese* 16, 47-52. Also in J.-L. Destouces (ed.), *E.W. Beth Memorial Colloquium*, D.Reidel, Dordrecht 1967, 4-9. Colloquium held in Paris, 1964.
 - a. Provisional programme, annotate in hw. by Destouches and Heyting (3 sh.).
 - b. Final programme, with annotations in Heyting's hand (3 sh.).
 - c. Announcement of Heyting's talk.
 - d. Hw. notes for the talk (6 sh., in French).
 - e. Notes for the talk in Dutch (6 sh.).
 - f. Cc. ts. (4 sh.).
 - g. Offprint.
- P66A.** Conclusions. *Synthese* 16, 86-88. Also in J.-L. Destouces (ed.), *E.W. Beth Memorial Colloquium*, D.Reidel, Dordrecht 1967, 118-120. Colloquium held in Paris, 1964. See also P66.
 - a. Hw. notes for the address (3 sh.).
 - b. Cc. ts. (3 sh.).
 - c. Offprint.
- P66B.** In Memoriam Evert Willem Beth (1909-1964). *Notre Dame Journal of Formal Logic* 7, 289-295.
 - a. Covering letter of ms., cc..
 - b. Cc. ts. (4 sh.).
 - c. Offprint.
- P67.** In memoriam L.E.J. Brouwer (Dutch). *Algemeen Nederlands tijdschrift voor Wijsbegeerte en Psychologie* 59, 1-13.
 - a. Ts. (24 sh.).
 - b. Offprint.
 - c. Covering letter.
- P67A.** L.E.J. Brouwer (27 februari 1881- 2 december 1966), vernieuwer op de toppen en in de diepste gronden der wiskunde (Dutch). *De Gids* 130, 287-294.
 - a. Covering letter with short curriculum vitae of Heyting (carboncopies, 2 sh.).
 - b. Cc. ts. (2 sh.).
- P67B.** Luitzen Egbertus Jan Brouwer (1881-1966). *Yearbook of the American Philosophical Society* 1967, 116-119.
 - a. Correspondence (4 sh.).
 - b. Cc. ts. (4 sh.).
 - c. Offprint.
- P67C,D,E.** Technique versus metaphysics in the calculus, Informal rigour and intuitionism, Weyl on the experimental testing of mathematics. In: I.Lakatos (ed.), *Problems in the philosophy of mathematics*. North-Holland Publ. Co., Amsterdam, 43-44, 172-173 and 195 respectively. Correspondence concerning the conference and the publication, including ts. of the published discussion remarks (19 sh.).
- P67F.** In Memoriam Prof. Brouwer (Dutch). *Folia Civitatis* 14-I-1967 (not in P00).

- a. Cc. ts. (3 sh.)
- b. Newspapercutting (b', b" other copies).
- P67G.** Logica (Dutch). *Vrij Nederland* 16-IX-1967, in "Vrije Tribune" (not in P00).
- a. Newspapercutting of the article (column) by Piet Grijs to which Heyting is reacting.
- b. Newspapercutting of Heyting's article.
- c. Covering letter + cc. ts. letter to the editor (3 sh.).
- P68.** (Met H. Freudenthal) Levensbericht van L.E.J. Brouwer, 27 februari 1881-2 december 1966 (Dutch). *Jaarboek der Koninklijke Nederlandse Akademie van Wetenschappen 1966-1967*, 335-340.
- a. Letter of Heyting to Freudenthal, 2-V-1967.
- b. Cc. ts. of Freudenthal's part (6 sh.).
- c. Cc. ts. of Heyting's part (2 sh.)
- d. Offprint.
- P68A.** L.E.J. Brouwer. In: R. Klibansky (editor), *Contemporary Philosophy. A Survey. I. Logic and Foundations of Mathematics*. La Nuova Italia Editrice, Firenze, 308-315. For the correspondence concerning this paper see P68B.
- a. Cc. ts. (7 sh.).
- b. Covering letter to R. Klibansky.
- P68B.** Intuitionism in Mathematics. In: R. Klibansky (editor), *Contemporary Philosophy. A Survey. I. Logic and Foundations of Mathematics*. La Nuova Italia Editrice, Firenze, 316-323.
- a. Correspondence, including for P68A (22 sh.).
- b. Cc. ts. (7 sh.).
- P68C.** Wijsbegeerte van de wiskunde (Dutch). *Algemeen Nederlands tijdschrift voor Wijsbegeerte en Psychologie* 60, 140-153. Found in a cover marked "GWF Jubileumuitgave van het Genootschap voor wetenschappelijke filosofie 1968".
- a. Hw. ms. (42 sh.).
- b. Two sh. with a list of publications of Mannoury and notes on Mannoury's work.
- c. Typed ms. (24 sh.).
- d. Offprint.
- P68D.** Bijzondere bijeenkomst op zaterdag 24 februari 1968, ter gelegenheid van de onthulling van het borstbeeld van het in 1966 overleden lid der Akademie, L.E.J. Brouwer (Dutch). Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam (7 pages).
- a. Summary of the speech (cc., 1 sh.).
- b. Ts. (7 sh.).
- c. Offprint.
- P69.** Wat is berekenbaar? (Dutch). *Nieuw Archief voor Wiskunde (3)* 17, 1-7.
- a. Cc. ts. (6 sh.).
- b. Offprint.
- P69A.** Remark on the paper by Ashvinikumar "The intuitionist contradictoriness of certain classical set-theoretic results". *Nieuw Archief voor Wiskunde (3)*, 17, 223. Ts. and offprint.
- P70.** Recent progress in intuitionistic analysis. In: A. Kino, J. Myhill, R.E. Vesley (eds.), *Intuitionism and Proof Theory*. North-Holland Publ. Co., Amsterdam, 95-100.
- a. Correspondence between Heyting, Myhill, Vesley and D.S. Scott (12 sh.).
- b. Folder on the conference.
- c. Programme of the conference.
- d. Information concerning the meeting (3 sh.).
- e. Preprint of the paper (7 sh.).
- f. Offprint.
- P72.** Autobiography for the Biographic Encyclopedia of Scientists and Inventors. Correspondence and cc. ms. (8 sh.). Not in P00.
- P73.** Address to professor Robinson. *Nieuw Archief voor Wiskunde (3)* 21, 134-137.
- a. Cc. ts. (4 sh.).

- b. Offprint.
- P74.** Intuitionistic views on the nature of mathematics. *Bolletino dell'Unione Matematica Italiana* (4) 9, supplemento, 122-134. Also in *Synthese* 27 (1974), 79-91.
 - a. Letter of invitation (2 sh.).
 - b. Programme of the meeting at Santa Margherita Ligure, June 1-4, 1972.
 - c. Hw. text of the talk (20 sh.).
 - d. Hw. ms. of the paper (fragment, 3 sh.).
 - e. Cc. ts. (17 sh.), with annotations in Heyting's hw..
 - f. Ts. for *Synthese* (14 sh.).
 - g. Offprint *Synthese*.
 - h. Offprint *Bolletino*.
 - i. Translation into Bulgarian, in *Filosofska Mis'l* 5, vol.37 (1981), 48-57 (not in P00).
- P74A.** Science, Croyance, foi. In: Science, Philosophie, Foi. *Colloque Internationale de Philosophie des Sciences, 8-11 Septembre 1971, Bienne*. Archives de l'Institut International des Sciences Théoriques, 19. Office International de Librairie, Bruxelles; also Beauchesne, Paris, 197-211.
 - a. Abstract (1 sh.).
 - b. Ts. of a preliminary version with three sh. with additions in hw. (14 sh.). b' is a copy without the hw. sh. but with another hw. page 11.
 - c. Cc. final ts. (13 sh.). c' another copy.
- P75.** (editor). *L.E.J. Brouwer, Collected Works, Vol.I. Philosophy and Foundations of Mathematics*. North-Holland Publ. Co., Amsterdam 1975.
 - a. Translation of chapter 2 of Brouwer's thesis, by Welter. Hw. ms., 30 sh..
 - b. Hw. ms. of Heyting's own translation of fragments of "Leven, Kunst, Mystiek", to be incorporated in the Coll. Works. 16 sh..
 - c. Ts. of b (10 sh.) plus one page of annotations in hw..
 - d. Ts. of the translation of Brouwer's thesis, corrected by C.G. Gibson. Two sh. in Heyting's hw. plus ts..
 - e. Ts. of the translations of Brouwer's papers except the thesis, corrected by C.G. Gibson. (Found in a cover bearing the inscription "Werken van L.E.J. Brouwer. Vertalingen gecorrigeerd door Gibson (behalve dissertatie)").
 - f. Final ts. of translations, footnotes, editorial comments, in short everything which had to be typeset for the edition, minus the obituary. A few pages in cc..
 - g/j. Cc. of the full bibliography of the Coll. Works plus several earlier bibliographies which had been used in its compilation.
 - k. Obituary of Brouwer, translation of the obituary which appeared in the "Jaarboek" of the Koninklijke Nederlandse Akademie van Wetenschappen (cf. P). Cc. translation, typed sh. with alterations proposed by Heyting; Xerox of one page from another obituary; final ts. of the obituary.
 - l. Materials concerning L.E.J. Brouwer's Cambridge Lectures.
 - 1. Correspondence (13 sh.).
 - 2. Notes taken by N. Routledge of Brouwer's Cambridge lectures. 11 sh., hw..
 - 3. 4 page fragment from projected book by Brouwer (1 covering sh. + 4 pages cc. ts.).
 - 4. 3 page fragment from projected book by Brouwer (1 covering sh. + 3 pages cc. ts.).
 - 5. Stencilled text headed 'Short retrospective notes on the course "Intuitionistic Mathematics". First Part, Easter Term, 1947 by L.E.J. Brouwer' (6 sh.).
 - 6. Rough notes by Heyting on the ms. of Brouwer's Cambridge lectures (4 sh.).
 - 7. Heyting's hw. summary of the ms. (6 sh.).
 - 8. Hw. draft of Heyting's extracts for the Coll. Works (7 sh.).
 - 9. Cc. ts. for the Coll. Works. (4 sh.).
 - m. Correspondence with C.G. Gibson on the translations (22 sh.).
 - n. Correspondence with the "Wiskundig Genootschap" and Z.W.O. (78 sh.).
 - o. Correspondence with the publisher (28 sh.).
 - p. Miscellaneous correspondence (10 sh.).
 - q. Work of A.M. de Rijk for the Coll. Works, incl. correspondence.
 - r. Miscellaneous notes by Heyting connected with the Coll. Works (33 sh.).

Reviews:

- s. *Cultureel Supplement NRC-Handelsblad*, p.14-15, Gerard de Vries. Newspaper cutting.
- t. Review article in ? D.A. Gillies (1978 or 1979), pp. 106-126.
- u. *Die Zeit* (1976?), C. Ullmann (1 sh.).
- v. *Neue Zürcher Zeitung*, 10-VI-1976, C. Ullmann (1 sh., identical with u).
- w. *Methodology and Science*, 8 (1975), by E. (3 sh.).
- x. Announcement in *International Mathematics News*, 111, sept 1975, H. Ratschek (1 sh.).
- y. *Mind* (1980), M.A.E. Dummett (12 sh.).
- z. *Bull. Am. Math. Soc.* 83 (1977), G. Kreisel (4 sh.).
- aa. *Philosophia. Philosophical Quarterly of Israel*, Dec. 1979, 9 nr.1 W.P. van Stigt (4 sh.).
- bb. *Jahresber. der Deutschen Mat. Ver.*, A. Dold (1 sh.).
- cc. *Bull. de la Société Math. de Belgique*, G. Hirsch (3 sh.)
- dd. *Philosophia. Philosophical Quarterly of Israel*, Oct. 1975, 5 nr.1, (1 sh.).
- ee. *Monatshefte für Math.* 80 (1975), J. Tichy (1 sh.).
- ff. *Mededelingen van het Wiskundig Genootschap*, Jan.1976, nr.1 (1 sh.).
- gg. *Zentralblatt f. Math.*,311, K. Schultz (1 sh.).
- hh. *Historia Mathematica*, Vol.3, announcement (1 sh.).
- P76.** Intuitionismus III. In J.Ritter, K. Gründer (eds.), *Historisches Wörterbuch der Philosophie*. Schwabe & Co., Basel, 1976, 543-544.
 - a. Correspondence (3 sh.).
 - b. Ts. (2 sh.).
 - c. Retyped ms. with editorial corrections, printer's proofs (4 sh.).
 - d. Offprint.
- P76A.** G. Mannoury en de signfica (Dutch). *Cultureel Supplement Handelsblad*, 19-III-1975 (not in the bibliography). Newspaper cutting.
- P77.** Wetenschap, Geloof, Religie (Dutch). *De Gids* 140, 83-91.
 - a. Cc. ts. (14 sh.).
 - b. Offprint.
 - c. Review from a newspaper (which?).
- P78.** History of the foundations of mathematics. *Nieuw Archief voor Wiskunde* (3) 26, 1-21.
 - a. Ts. (20 sh.).
 - b. Offprint.
- P78A.** Hoe de logica grondig is veranderd in dertig jaar (Dutch). *NRC-Handelsblad*, 1-II-1978, page 11 (not in P00).
 - a. Ts. (3 sh.).
 - b. Newspaper cutting (with two copies b', b").
- P79.** Intuizionismo (Italian). In: *Enciclopedia del Novecento III*, Istituto dell'Enciclopedia Italiana, Roma, 846-855.
 - a. Correspondence (19 sh.).
 - b. Cc. of Heyting's ts. (29 sh.).
 - c. Offprint.
- P81.** Continuum en keuzenrij bij Brouwer (Dutch). *Nieuw Archief voor Wiskunde* (3) 29 (1981), 125-139, with a postscript by A.S. Troelstra (not in P00). The paper appeared posthumously and is based on the typed text of a talk given by Heyting at the Wintersymposium of the "Nederlandse Vereniging voor Logica en Wijsbegeerte der exacte Wetenschappen" and the "Wiskundig Genootschap", on Saturday, 15-II-1975. Title: "Het werk van L.E.J. Brouwer". The symposium was organized on the occasion of the appearance of the first volume of Brouwer's Collected Works.
 - a.Ts. (12 sh.).
 - b. Offprint.
- P97.** List of addresses for mailing Heyting's offprints (Nov. 1959), 2 sh..
- P98.** Ms. for a "Collected Works" edition of Heyting's papers (preserved in a separate box).
- P99.** Reviews by Heyting, mainly in *Mathematical Reviews*, *Nieuw Archief voor Wiskunde*, *Journal of Symbolic Logic*. Most reviews are represented by carbon

copies of the ts.. They have been ordered alphabetically: P99-xyz refers to the review of an author the name of which starts with xyz. If more authors or combinations of authors appear with the same three letters the items are distinguished by xyz1, xyz2, etc. Authors reviewed:

Adam, Anderson, Anonymus, Barth, Becker, Bergmann, Bertolini, Beth, Beth & Tarski, Bishop, de Bouvère, Brouwer, Bull, Cassina, Ceitin, Cellucci, Copi, Curry, Demuth, Dequoy, Destouches, Destouches-Février, Detlovs, Diego, Dienes, Dijkman, Dragalin, Dürr, Efimov, Emeh, Ershov, Essenin-Volpin, Fischer, Fan Dín Zieu, Fraenkel, Fraïssé, Fréchet, Frege, Freudenthal, Friedberg, Gál & Rosser & Scott, Gerretsen, Gilmore, Gokieli, Golota, Golovina & Yaglom, Gonseth, Goodman, Goodstein, Grandy, Griss, Grzegorzcyk, Gumin & Hermes, Halldén, Halmos, Henkin, Hermes & Scholz, Hermes, Hilbert & Bernays, Hotoreckii, Yasuyuki & Iséki, Izumi, Jaeger, Jankov, Jaskowski, Kavun, Kershner & Wilcox, Ketonen, Kipnis, Kleene, Kosovskii, Kotov, Kreisel, Kreisel & Putnam, Kuroda, Kushner, Lacombe Ladrière, Leblanc, Leblanc & Belnap, Lenz, Levin, Lewis, Loonstra, Lorenzen, Lukasiewicz, Lusin, McKinsey & Tarski, Malcev, Mannoury, Manukjan, Marcus, Markov, Martin, Matsumoto, Matulis, Medvedev, Menger, Mihaljinec, Mikolás, Minc, Moh Shaw-Kwei, Moisil, Monteiro, Mostowski, Muchnik, Murata, Myhill, Nogorny, Nelson, Nogina, Novak, Novikov, Ohnishi, Ono, Orevkov, Orlovskii, Pepis, Peremans, Péter, Piesyk, Prior, Quine, Rasiowa, Rasiowa & Sikorski, Rautenberg, Reichenbach, Rescher, Rieger, J. Robinson, R.M. Robinson, Rohleder, van Rootselaar, Rose, Rosser, Rosser & Wang, Rousseau, Rozanskaya, Sade, Shanin, Schmidt, Schröter, Schütte, Schwabhäuser, Scott, Scroggs, Sczerba & Tarski, Segerberg, Shoenfield, Sikorski, Simons, Slisenko, Smiley, Smullyan, Sobocinski, Steck, Suetuna, Suppes, Taiclin, Tarski, Trahtenbrot, Vorobev, Troelstra, Umezawa, Valpola, Vuckovic, Vuillemin, Vredenduin, Wang, Wang & McNaughton, Wilder, de Witte, Wittenberg, Wyler, Yonemitsu, Zarovnyi, Zaslavskii, Zaslavskii & Ceitin.

S. [Scripties, Proefschriften]

A proefschrift" is a thesis for the doctorate at a dutch university, and is comparable to a Ph.D thesis. A "scriptie" (more properly "doctoraal- scriptie") is comparable to a Masters thesis. Below we list theses prepared under Heyting's direction, or in which he has been otherwise involved and concerning which material has been found in the Nachlass. Not all theses prepared under Heyting are represented! The material is ordered in the first place alphabetically by author, in the second place chronologically as far as possible.

Sasj. Proefschrift of Asjwinikumar, "Hilbert spaces in intuitionism".

- 1. Newspaper cutting on Asjwinikumar's thesis (1 sh.)
- 2/11. Requests for financial support for the publication of the thesis (10 letters)
- 12. Heyting's speech on the occasion of the conferment of the doctorate (1 sh., typed).
- 13/20. Drafts of the "Stellingen", summaries, final draft of the thesis, two fragments (typed).

Sbar. Scriptie E.M. Barth : "De Waardeseriemethode in de symbolische logica". In this case Heyting did not advise on the thesis but served as member of the examination committee.

- 1. List of study results of E.M. Barth (1 sh.).
- 2. Announcement of the examination (1 sh.).
- 3. Scriptie (41 sh., typed).

Sber. Scriptie "Graden van abstractie en wiskunde" and proefschrift "Grondslagen van de aanschouwelijke meetkunde" of J.J.W. Berghuys S.J.

- 1. Ms. scriptie (14 sh., typed).
- 2. Letter of Berghuys to Heyting, 17-V-1943.
- 3. Ms. by Berghuys, 7 sh. (hw.).
- 4. Letter of Berghuys to Heyting, 2-IX-1943.
- 5. Ms. by Berghuys (9 sh., hw.).
- 6. Letter of Berghuys to Heyting, 24-IV-1944.
- 7. Ms. by Berghuys, "De rol van de empirische gegevens in de wiskundige evidentie" (17 sh., hw.).
- 8. Letter of Heyting to Berghuys 5-VII-1944 (2 sh.).
- 9. Letter of Berghuys to Heyting, 3-I-1946.
- 10. Letter of Heyting to Berghuys, 3-VII-1950.

- Sblo.** Scriptie of Th. B. Bloten, "De betekenis van het geheugen bij het wiskunde onderwijs" (16 hw. sh. + envelope).
- Sbol.** Scriptie J.Ch. Boland, "Over de aanvangsgrens der wiskunde" (16 double folio sh., hw., with cover).
- Sdal.** Proefschrift D. van Dalen, "Extension problems in intuitionistic plane projective geometry" (2 sh. containing Heyting's speech on the occasion of the conferment of the doctorate).
- Sdoe.** Scriptie H.C. Doets "The relation of succession P on spaces homeomorphic to the circle, the open, half-closed and closed line". (22 sh., stencilled, with cover).
- Sfer.** Scriptie H. Ferro, " 'Die Logik und das Grundlagen problem' van Prof. Jan Lukasiewicz".
- 1. Letter of 12-IV-1948 to A. Heyting.
 - 2. Appendix to the scriptie (4 sh., hw.).
 - 3. Scriptie (7 sh., typed).
- Sgib.** Proefschrift C. G. Gibson "The Radon Integral in Intuitionism".
- 1/10. Correspondence concerning the thesis.
 - 11. Heyting's speech on occasion of the conferment of the doctorate (carbon copy, typed).
 - 12. Summary + "Stellingen" of the thesis (7 sh., copies of ts.).
- Shei.** Scriptie J. Heidema, "Rekursieve reële getallen, 'n vergelijking van die Theorie van Lachlan met die van Brouwer en van Mostowski" and Ph. D. thesis J. Heidema "Contributions to the metamathematical theory of ideals". See also under Bhei.
- 1. Scriptie (three double folio sh., hw.).
 - 2. Heytings appointment as examiner for the thesis (3 sh.).
 - 3. Letter of A.P.J. van der Walt to A. Heyting (28-I-1967).
 - 4. Ibidem (16-II-1967).
 - 5. Heyting's report on the thesis (report + letter 8-III-1967).
 - 6. Letter of A.P.J. van der Walt to A. Heyting (10-V-1967).
 - 7/8. Ms. of the thesis (8 + 28 sh., typed).
 - 9. Some notes by Heyting concerning the ms. (2 sh., in hw.).
- Shen.** Scriptie C. Hensbroek "Stellingen uit de intuitionistische theorie van functies van complexe variabelen. (17 pages on ten double quarto sh., hw.).
- Sjon.** Scriptie D.H.J. de Jongh, "Onderzoekingen over de intuitionistische propositiologica (23 sh., stencilled).
- Slee.** Scriptie P. Leemans, "Intuitionistische verschilrelaties".
- 1. Draft of a letter to Leemans (4 sh., hw.).
 - 2. Heyting's notes on the scriptie (4 sh., hw.).
 - 3. Letter of Heyting to Leemans of 6-XI-1962 (3 sh., cc., final form of Slee-1).
 - 4. Scriptie (5 double folio sh., hw.).
- Smul.** Scriptie W.H. Muller, "De bewijsbaarheid van wiskundige eigenschappen" (6 double folio leaves with cover, typed).
- Smoo.** Proefschrift J.J.A. Mooij, "La philosophie des mathématiques de Henri Poincaré".
- a. Preface trade edition (copy ts., 4 sh.).
 - b. Correspondence concerning a grant from Z.W.O. for the printing.
- Soem.** Scriptie H. Oemraw Singh "Rekursieve onoplosbaarheid van het immortality-probleem voor Turing machines" (Oemraw Singh: programme of studies approved 3-7-1968, born 25-VII-1948, Nickerie (Suriname); first enrollment 1961, mentor A. Heyting).
- 1. Covering letter.
 - 2. Six sh. with critical annotations to the thesis (presumably by Heyting's assistant, hw.).
 - 3. Scriptie (Xerox ts., 46 sh. with cover).
- Sryk.** Scriptie A.M. de Rijk, without title (13 stencilled sh. with cover).
- Sshu.** Ph.D. thesis of Sahab Lal Shukla, "Sequence spaces in intuitionism".
- 1/7. Invitation to Heyting to serve on the board of examiners, Heytin's acceptance (7 letters).
 - 8. Heyting's report on the thesis (2 sh., typed cc.).

- 9. Synopsis of the thesis (typed cc., 3 sh.).
- 10. Notes on the thesis by Heyting, with a proposal for the publication of the result (7 sh., hw.).
- Stim.** Scriptie R. Timman (without title). (5 double folio sh., hw.).
- Stro.** Scriptie "De P-Q-T-relaties en hun toepassingen" and proefschrift "Intuitionistic general topology" of A.S. Troelstra.
 - 1. Scriptie (17 sh., typed).
 - 2. Draft version of the thesis. (cc. ts.)
 - 3/4. Notes by Heyting concerning the ms. of the thesis (2 sh., hw.).
 - 5. Heyting's notes for the speech on the occasion of the conferment of the doctorate (1 sh., hw.).
- Swar.** Scriptie N.J. van Warmelo "Oorvoerbaarheid en deduksiegelijkheid" (4 sh., typed).
- Swig.** Scriptie B.G. Wiggers, "De neo-scholastiek en de wijsbegeerte der wiskunde" (1 +31 sh., typed).

V. Material concerning unpublished lectures and manuscripts of Heyting. [Voordrachten]

Lectures which resulted in a publication are found under group P. V01 and V02 are of uncertain date; for the rest the order is chronological by year (sometimes only approximate, or based on an "educated guess"). When a definite title was indicated in the manuscript or announcement of the talk we have indicated this by underlining.

- V01.** Manuscript on Hilbert spaces, undated, presumably between 1940 and 1949. It is not clear whether this has been intended as a lecture or for a paper. The letter is that of Heyting's old typewriter. The fact that the text is in English suggests that it is written after 1945. Before 1940 Heyting wrote his papers in French or German. The most plausible conjecture seems to me that the ms. was intended as a draft for a paper. However, it was found together with V42 and the notes for the lecture in Paris 1950 (cf. P53). 9 sh..
- V02.** *Configuraties*. Two lectures on configurations, undated, but presumably after 1946. The material consists of 5 sh. of stencilled notes.
- V42.** Lecture on Hilbert spaces in intuitionism, possibly held for the "Wiskundig Genootschap" in 1942, since the sh. are marked "W.G.42" in corner top left. Found together with the notes for P53.
- V48.** *Onoplosbare problemen*. Stencilled notes for a lecture at the "Universiteitsdag", Amsterdam 1948.
- V53.** Lecture on intuitionistic logic, Leuven 1953. Two sh. with hw. notes.
- V54.** Lecture or ms. of a paper in two parts: I. *Sur le principe du tiers exclu*, and II. *Sur la double négation*. Without date, but after 1942 (there is a reference to Kleene's "Introduction to Metamathematics" from 1952). The typewriter seems to have been the one in use at the Mathematical Institute of the University of Amsterdam in the fifties. The material was found in a cover together with other notes for lectures by Heyting. It seems plausible to assume that this is in some way a typed reworking of V53. The second part is reminiscent of Dijkman's work (cf. the chapter on logic in P56).
 - a. *Sur le principe du tiers exclu*. 6 typed sh..
 - b. *Sur la double négation*. 5 typed sh..
- V57.** *The fundamental ideas of intuitionism*. Lecture presented during Heyting's American Journey, dec.1957-jan.1958. Cf. V57E for details. Typed, 9 sh..
- V57A.** *The interpretation of intuitionistic logic*. Lecture presented during Heyting's American Journey, dec.1957-jan.1958. Cf. V57E for details. hw. notes, 17 sh..
- V57B.** *Intuitionistic theory of measure and integration*. Lecture presented during Heyting's American Journey, dec.1957-jan.1958. Cf. V57E for details. (5 sh., typed).

- V57C.** *Die Voraussetzungen der intuitionistischen Mathematik.* Lecture presented in Münster i. Wf., Germany on 18-I-1957.
 -a. Letter with invitation.
 -b. Typed text of the lecture (7 sh.).
- V57D.** Ts. of a talked (?) on the fan theorem, without title. Carbon copy of ts., stamped "7 Nov. 1957" (3 sh.).
- V57E.** Correspondence concerning Heyting's journey, through the U.S.A., dec.1957-jan.1958. Cf. V57E for details. This concerns V57, V57A, V57B.
 -a. List of talks, addresses (3 sh.).
 -b. Corresp. Princeton University and Institute for Advanced Study (12 sh.)
 -c. Corresp. Pennsylvania State University (5 sh.).
 -d. Corresp. Indiana University (4 sh.).
 -e. Corresp. Purdue University (4 sh.).
 -f. Corresp. University of California at Los Angeles (4 sh.).
 -g. Corresp. University of California at Berkeley (1 sh.).
 -h. Corresp. Stanford University (1 sh.).
 -i. Corresp. University of Wisconsin, Madison (6 sh.).
 -j. Corresp. University of Chicago (4 sh.).
 -k. Corresp. University of Notre Dame (6 sh.).
 -l. Corresp. Ohio State University, Columbus (3 sh.)
 -m. Corresp. Wayne State University (4 sh.).
 -n. Corresp. University of Michigan, Ann Arbor (4 sh.).
 -o. Corresp. Cornell University (10 sh.).
 -p. Corresp. Yale University (12 sh.).
 -q. Corresp. Columbia University (4 sh.).
- V58.** *Hoogtelijnen.* Lecture in the series "Elementaire onderwerpen vanuit hoger standpunt belicht", Mathematisch Centrum, Amsterdam, 12-XI-1958.
 -a. Stencilled abstract, 2 sh..
 -b. Hw. notes, 3 sh..
- V59.** Course on intuitionistic mathematics in Warsaw, september 1959. Hw. notes for the course, 14 sh..
- V59A.** Lecture on conformal mappings (intuitionistic). Warsaw, september 1959. Hw. notes for the talk, 5 sh..
- V61.** *Constructief en Recursief.* Lecture for the "Wiskundig Genootschap", jan. 28, 1961. Letter plus four hw. sh. of notes.
- V62.** *On the intuitionistic theory of well-ordering and on bar induction.* Talk in Leeds 1962.
 -a. Programme of the meeting, list of abstracts, list of participants (5 sh.).
 -b. Hw. text of the lecture (11 sh.).
 -c. Typed lecture (6 sh.).
- V63.** *Recursieve Functies.* Lecture on 15-V-1963, Mathematisch Centrum, Amsterdam. Found in a cover together with the notes for V61)
 -a. Hw. notes (3 sh.).
 -b. Duplicated typed notes (3 sh.).
- V63A.** *Recursieve Functies.* Lecture of 11-IX-1963, on occasion of a visit of Belgian mathematics teachers to the University of Amsterdam. (In 1964 again a "Belgische Week" was organized, in which Heyting did not participate.)
 -a. Programme of the "Belgische Week" in 1963 (3 sh.).
 -b. Stencilled text of Heyting's lecture. Annotations in Heyting's hw.. The inscription "Eindhoven 1965" in Heyting's hand is due to a mistake (cf. P69 in the bibliography). 5 sh.
 -c. Stencilled text of Troelstra's lecture (connected with Heyting's lecture). 6 sh.
- V64.** Notes for a lecture on the work of E. W. Beth for the "Nederlandse Vereniging voor Logica en Wijsbegeerte der exacte Wetenschappen". Around 1964. Hw. notes, 5 sh..

- V66.** *Wat is een axioma?* Lecture for the "Nederlandse Vereniging voor Logica en Wijsbegeerte der exacte Wetenschappen", 15-X-1966. (6 typed sh. followed by 3 sh. with hw. notes).
- V67.** *L.E.J. Brouwer en het intuïtionisme.* Lecture for the "Wiskundig Genootschap", read and supplemented by J.G. Dijkman, 1-IX-1967.
 -a. Preliminary correspondence, announcement (5 sh.).
 -b. Notes in Heyting's hw. (4 sh.).
 -c. Notes in Dijkman's hw. (5 sh.).
- V67A.** Lecture at Utrecht, 22-III-1967, on life and work of L.E.J. Brouwer (1 typed sh.).
- V67B.** *Geschiedenis van het grondslagen onderzoek.* Lecture Utrecht, after 1967, no year indicated. Three hw. and one typed sh. with notes.
- V67C.** *Herdenking van L.E.J. Brouwer.* Lecture for the "Nederlandse Vereniging voor Logica en Wijsbegeerte der exacte Wetenschappen", 14-X-1967. (1 sh., hw.).
- V68.** *Is de toekomst der wiskunde voorspelbaar?* Valedictory lecture, 18-V-1968, Amsterdam.
 -a. Two sh. with hw. notes.
 -b. Typed text of the lecture (7 sh.).
 -b'. Copy of V68-b.
 -c. Cc. ts. summary (2 sh.).
 -d. Summary as published in "Folia Civitatis"
- V73.** *Rekursieve functies en Turingmachines.* Lecture held at 16-VIII-1973 (Amsterdam) and 17-VIII-1973 (Eindhoven), as part of the "Vakantiecursus 1973". Programme sh. (2 copies).
- V73A.** Lecture Adelaide, Australia, 1973. Hw. notes, 6 sh..
- V77.** Lecture at Aachen, BRD on 26-I-1977, on Brouwer's choice sequences. Hw. notes, 6 sh..
- V78.** *De Nederlandse Vereniging voor Logica en Wijsbegeerte der exacte Wetenschappen 1947-1977.* Lecture on occasion of the 30th anniversary of the association, 4-II-1978. Due to illness the lecture was delivered by A.S. Troelstra on the basis of Heyting's notes.
 -a. Invitation to Heyting.
 -b. Heyting's hw. notes for the lecture (12 sh. with 1 sh. with a summary in the hw. of A.S. Troelstra). This material was found in a wrapper headed "Geschiedenis Vert. v. Logica 1978. Voordracht door Troelstra gehouden omdat ik ziek was".
 -b'. Copy of V78-b.
 -c. Typed text under the title of the lecture (Xerox copy, 8 sh.)

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