

“Philosophico-Philological Studies on Wittgenstein's *Nachlass*”

Masahiro OKU

The original printed version of this report contains Chapter 1 and Chapter 2, written in Japanese. I cut these chapters in this ‘international’ version. As the result, Chapter 3 is the first chapter of this version.

If anyone will be interested in the first two chapters, please do not hesitate to contact me.

3 Preface to the English Version

This booklet is a Report of the Research Project “Philosophico-Philological Studies on Wittgenstein's *Nachlass*”, conducted by Oku, Masahiro (Grant-In-Aid For Scientific Research, Japan Ministry of Education, #14510011 (2002-2004)).

Partly as a matter of formalities, some of its part is written in Japanese. However, since I would like to distribute this not only inside but also outside the country, some part is in English. This is the reason for the seemingly awkward structure of this booklet.

Chapter 4 is an English abstract of my paper “On Wittgenstein's 'World-Picture' in his *On Certainty*”, written in Japanese. The abstract itself was originally printed on p.89 in *the Bulletin of Graduate School of Human Sciences*, Osaka University, vol. 30 (2004).

Again, Chapter 5 is an English abstract of the paper "What is the "metalogical" in Wittgenstein?" written in Japanese. The abstract was originally printed on p.122, in the Bulletin of Graduate School of Human Sciences, Osaka University, vol. 31 (2005).

Chapter 6 “Some Remarks on the Editing and Publishing of Zettel” is a full text of my contributed paper for the 27th International Wittgenstein Symposium, August 2004.

Chapter 7 “Appendix: Correlation Tables for TS 228 and TS 233” is made by me in the course of my research. I make these tables public to be used freely by any Wittgenstein scholars. However, when someone writes a paper by making use of my tables, I ask the author to give credit. I have attached minimum remarks to assist use.

I am to retire from Osaka University on 31st March 2005. Thereafter, I can be contacted at the following address.

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4 On Wittgenstein's 'World-Picture' in his *On Certainty*

1 *On Certainty* (hereafter OC), a collection of Wittgenstein's remarks from his last one and a half years, has been variously discussed among philosophers. The most popular and attractive topic is the 'world-picture' or 'picture of the world'. In the philosophy of science, Wittgenstein's view associated with this idea is often compared with Quine's holism.

2 This paper intends to show that the comparison between the two philosophers is off the point, and discusses some other related problems.

3 The oft-used scheme 'Wittgenstein versus Quine' is based on the latter's viewpoint. Consequently, Wittgenstein's view was distorted when interpreted under this scheme. This claim is supported by the following two reasons. The first, more basic reason is that Quine's main books and papers had already been published and well read when OC was published in 1969. The second, more specific reason is that Wittgenstein's metaphor of 'river-bed' in ##96f. reminds the reader of Quine's holism as appears in his 'Two Dogmas of Empiricism.'

4 The truth is that the term 'world-picture' appears in only 7 out of the total 676 sections of OC. Moreover, these sections contain some naive mistakes in science, e.g. a misdescription of Lavoisier's achievement (#167), and the physical impossibility of space travel (#108). These sections do not deserve to be considered as presenting a possible theory of science.

5 In addition, almost all the ideas in OC are traceable to earlier remarks. To put it differently, very few, if any, ideas newly appear in OC.

6 In evaluating OC as a whole, there are some great difficulties. An example can be described with the following statement: "Wittgenstein has not been on the moon". This statement can be understood as describing a non-personal truth. On the other hand, "Wittgenstein has not flown by plane", "Wittgenstein has not been in China" should be understood as indicating personal or person-specific truths. It seems to me, however, that his stance on this point was wavering. In order to give a full assessment of OC, we have to scrutinize it in more detail, keeping also in mind his deteriorating conditions in the last two months of his life.

5 What is the "metallogical" in Wittgenstein?

1. In his *The Later Wittgenstein* Stephen Hilmy emphasized the important role of the concept "metallogical" in Wittgenstein's philosophy. Hilmy titled Chapter 2 "Metalogic and the Domain of Logic: the Shift to Ordinary Language"; and regarded the concept "metallogical" as the landmark of Wittgenstein's philosophical change. Moreover, he thought that the concept is far-reaching, covering the whole psychological fields.

2. Researchers have not responded to Hilmy's claim so far. Their silence is probably due to the following difficulty: in Wittgenstein's published books the term "metallogical" appears only three times, while Hilmy made extensive use of Wittgenstein's unpublished materials (Nachlass) and drew his claim from the occurrence of the term found there. To evaluate Hilmy's claim, therefore, one has to check the Nachlass thoroughly.

3. The release of the database *Wittgenstein's Nachlass The Bergen Electronic Version* in 2000 changed the situation. We can scrutinize the term "metallogical" and its derivatives with ease now. This paper is the result of such an investigation.

4. The database search returns 37 occurrences of "metalogisch" and its inflections. As many of the passages containing the term are duplicates or minor variants, we can group them into ten remarks.

5. The chronologically first passages in each of these ten groups are:

MS 110-160 (1931), MS 110-189 (1931), MS 110-191 (1931), MS 110-194 (1931), MS 153a-159v (1931), MS 113-049v (1931-2), TS 212-810 (1932?), TS 213-003 (1933?), MS 114-027 (1933?), and MS 116-002 (1936?).

6. From the investigation of these remarks, we have the following results.

a) Wittgenstein was concerned about "metallogical" between 1931 and 1933 or 34. Remarks of MS 116 in 1936(?) are already retrospective comments.

b) His stance to the "metallogical" idea is always negative.

c) The application of the concept "metallogical" is rather specific, it does not cover all psychological concepts as Hilmy imagined. For example, the problems of other minds and of aspect-change do not have to do with the "metallogical".

d) In my evaluation, the concept "metallogical" can be best understood on the analogy of transcendental logic in Kantian sense. In other words, *Tractatus Logico-Philosophicus* can be read as a version of transcendental logic.

e) Wittgenstein was emancipated only gradually from the attraction of the "metallogical". For example, *Philosophical Remarks* remains within the "metallogical" framework.

6 Some Remarks on the Editing and Publishing of *Zettel*

(Formerly printed in *Experience and Analysis*, Papers 27th International Wittgenstein Symposium Kirchberg am Wechsel 8.-14., August 2004, pp. 264-265)

Abstract

Examining the editing and publishing process of Wittgenstein's *Nachlass* TS 233 as *Zettel* gives us a good chance for practicing Wittgenstein scholarship. It also gives us a valuable insight into Wittgenstein's own thinking and writing. I will make the following points:

- 1) Although the efforts of the editors of *Zettel* should be appreciated, there are some problems, in view of the standard principle of text studies.
- 2) Publication of *Zettel* in 1967 is historically very significant.
- 3) The remarks printed in *Zettel* are useful; some of them have variants in otherworks of Wittgenstein.
- 4) The extant copies of TS 228 and TS 230 were not used to compile TS 227 (*Philosophical Investigations* Part I).
- 5) In Wittgenstein studies, cross-references of variant remarks are very important: a typical case is *Philosophical Investigations* #580.

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Some Remarks on the Editing and Publishing of *Zettel*

Masahiro Oku, Osaka, Japan

1)

The German-English version of *Zettel* (hereafter Z) was published in 1967 with the number '6' on the spine. The number indicates the order of posthumous publication by Blackwell: vol. 1 is *Philosophical Investigations* (PI) published in 1953; vol. 2 *Remarks on the Foundations of Mathematics* (RFM), in 1956; vol. 3 *the Blue and Brown Books* (BB), in 1958; vol. 4 *Notebooks 1914-1916*, in 1961; and vol. 5 *Philosophische Bemerkungen* (PB, German only), in 1964. Vol. 7 *On Certainty* (OC), in 1969 and vol. 8 *Philosophische Grammatik* (PG, German only), in 1969, followed.

2)

The order shows that these works were not published systematically. As I discussed in Oku (2002), the literary executors of Wittgenstein felt that they had to publish his *Nachlass* urgently,

because, at the time of his death, he was world-famous only as the author of the *Tractatus Logico-Philosophicus*. Urgent publishing was successful, but it caused criticisms concerning editing: two texts (TS 227 & TS 234) were used to make up PI, as if they made a well-related whole (for a skeptical comment, see von Wright 1981); the selection principle for RFM is not clear (Oku 2002); and Rhees' editing of PG was severally criticized (Kenny 1984 and Hilmy 1987).

3)

In the last 50 years, Wittgenstein became world-famous (not as the author of TLP only), and his books long sellers. In addition to the published works, we also have the Cornell Copy and the WAB/OUP database. It is high time we assessed Z, a work which has not been evaluated appropriately. My assessment is made from three angles: a) assessment concerning the editing of Z, b) assessment concerning the historical significance of the publication of Z, and c) assessment of the value of the remarks themselves, i.e., whether the box which contained the *Zettel* remarks was a dustbox or a jewellery box.

4) Assessment concerning the editing of Z (TS 233)

The present report is the result of examining the Editors' Preface of Z and the Cornell Copy and the WAB/OUP (Oku 2005).

a) The remarks printed in Z were probably found as fragments in a box like TS 212, whose image can be seen in the WAB/OUP.

b) On behalf of the executors, Peter Geach arranged the fragments and pasted them into 2 notebooks. They are called *Zettel I* and *Zettel II*, or TS 233a and TS233b.

c) The reason why Geach pasted them into notebooks rather than into loose-leaf folios is unclear. He pasted them leaving no space between fragments, and he cut some fragments and pasted them on two consecutive pages of the notebooks. And he paged the notebooks. Thus, the fragments are fixed into the notebooks.

d) However, some fragments were not pasted. They were inserted into appropriate places at the time of printing. In The Cornell Copy, they were placed on the relevant pages and photographed together. Therefore, for instance, in the Cornell Copy, page 5 of *Zettel II* contains three leaves. In the WAB/OUP, these two additional fragments are photographed separately and called TS 233b-5a and TS 233b-5b.

e) The WAB/OUP is more reliable than the Cornell Copy. For example, Z #648 and Z#717, which were later inserted, are not included in the Cornell Copy, however, in the WAB/OUP they are included at the end of TS 233b.

f) The exact process of printing Z, namely whether the extant two notebooks themselves were sent to the printer for typesetting or not, is unknown. However, I guess that a different typescript copy was made for printing for several reasons. Firstly, to typeset from TS 233 is terribly difficult. Secondly, for example, the remark that is now Z #354 does not occur in TS 233; this was added by the editors. Thirdly, Anscombe was translating Z into English while printing was prepared.

g) Thus, I am inclined to think, the editors had to make another copy of the typescript for printing.

If the fragments had been pasted in loose leaf folios rather than in bound notebooks, much work would have been saved.

h) I do not have the slightest intention to underestimate Geach's effort. He had to retype some remarks from TS 228 and TS 232. We can confirm this through the use of different carriages and type faces and through English comments in the midst of texts, for example, "Crossed out and marked with a big ink query." (TS 233b-38.1 Z #567) and "in the margin alongside the whole of 701 and 702" (TS 233b-37.2 Z #559).

i) We find some misplacements of the fragments. A famous one is the one that concerns the "plan for the treatment of psychological concepts." The original typescript is TS 232 #63, pp. 615-616. However, the first half, p. 615, is now Z#472, and the latter half, p. 616, is now Z #483. In my opinion, such limited number of mistakes was unavoidable considering the difficult task of editing. Some amendments were made in the Suhrkamp edition of 1979.

j) However, I must add a critical comment against the executors and their representatives. Into the TS 228 and TS 232, someone wrote down directly Z section number for reference. Judging from the standard treatment of historically important textual materials, their treatment of Wittgenstein's *Nachlass* is lacking in delicacy, to say the least.

5) Assessment concerning the historical significance of publishing *Zettel*

a) First of all, let me comment on the case of TS 234 (PI Part II). TS 234 is a typescript independent from TS 227, but they were published in 1951 in one book. Though TS 234 has been lost, we can trace the roots of PI Part II. PI [265] Part II is made up of selections, some of which are partly revised, from TS 229, TS 232, MSS 137-138, and MS 169. These source materials have been published in a book form: *Remarks on the Philosophy of Psychology I* in 1980, *Remarks on the Philosophy of Psychology II* in 1980, *Last Writings on the Philosophy of Psychology I* in 1981, and the Chapter 1 of *Last Writings on the Philosophy of Psychology II* in 1992, respectively. In other words, we were able to read some selections from Wittgenstein's post-Second World War works at a very early time.

b) A similar point holds with regard to *Zettel*. According to my rough counting (Oku 2005), of 717 sections in Z, 626 sections are based on TS 228, TS 229, or TS 232. Z was published in 1967. On the other hand, TS 228 has not been published yet. In the meantime, Z has become an important source book for studying Wittgenstein's philosophy; no one can deny its historical significance.

6) Evaluation of the remarks in *Zettel*. A dustbox or a jewellery box?

a) For the assessment, firstly I would like to examine von Wright's classical article 'The Origin and Composition of the *Philosophical Investigations*' (von Wright 1981). According to him, at one stage Wittgenstein made a typescript *Bemerkungen I* (TS 228). This is a selection from his older materials, and the order of the remarks of TS 228 followed the original MSS and TSS, and their

sections. Then Wittgenstein made another typescript *Bemerkungen II* (TS 230). This is a

rearrangement of TS 228 according to the contents of the remarks.

b) I (Oku 2005) checked the remarks in TS 228 and traced their roots, and confirmed von Wright's description. In TS 228, remarks from MS 116 come first, then, remarks from MS 129, MS 117, MS 115, etc. Moreover, the extant copy of TS 228 contains many handwritten amendments, and these corrections are reflected in TS 230 with some further amendments.

c) However, if von Wright's description suggests a flow of texts from TS 228 via TS 230 into PI, then the suggestion is misleading. Changes in TS 230 are not reflected in PI. This is the most important suggestion in my report.

d) I compared the remarks of TS 233 (Z) taken from TS 228 with the extant copy of TS 228, and I discovered that corrections made in the two typescripts are not identical. Namely, some corrections are in the one typescript and not in the other. And even in those cases where corrections are made in both of the corresponding sections, the overall texts are generally not identical.

e) Then, I compared the sections of PI Part I taken from TS 228 with the extant copy of TS 228, and the results were similar, namely, the amendments in the extant copy of TS 228 are not reflected in PI, and some sections of TS 228 origin in PI have different amendments.

f) Then, I checked the PI passages of TS 228 origin and the Z passages of TS 228 origin, and I found that apart from few exceptions, these passages do not overlap.

g) My conclusion is this: besides the extant copy of TS 228, Wittgenstein had another copy of TS 228 and, independently of the amendments made on the extant TS 228, he made different amendments on this other copy of TS 228. Then, he cut this typescript into pieces, some of them were selected and used to make TS 227, the text for PI Part I, and most of the others were kept in a box.

h) I would like to add a comment that concerns a detail about TS 228. It is well known that PI Part I has some remarks as footnotes at the bottom of 11 pages. According to the editors, they are from the slips inserted into TS 227. All of them are of TS 228 origin. I guess that after the first selection for TS 227, Wittgenstein made another selection for his book. According to my counting, of 698 sections of TS 228, only 67 were discarded or disappeared: they are included neither in PI nor in Z.

i) Now, remarks printed in PI or Z, and those in extant TS 228 and TS 230, often have variations. This is very important for Wittgenstein studies. I would like to show a very interesting case.

j) PI #580: "An 'inner process' stands in need of outward criteria."

This remark was made very famous by the dispute concerning Wittgenstein's position and its relation to behaviourism. This section is from TS 228 #588. In the extant copy of TS 228, Wittgenstein added scare quotes to the phrase 'outward criteria' in handwriting, and TS 230 follows this instruction. However, in PI we do not find the scare quotes.

k) The scare quotes imply that the author has some dubious feelings for the concept or, at least, does not accept it naively. We can use this correction as one evidence that Wittgenstein is not an out-and-out behaviourist.

l) However, in TS 227 and PI, the phrase 'outward criteria' appears without scare quotes. Does this

mean that Wittgenstein changed his mind again? I do not think so. In the sense I have shown elsewhere (Oku 1998), Wittgenstein was not a careful writer. Therefore, for a careful study of his philosophy, crossreferencing of his texts is very important. TS 233 (Z) contains many variants and some original texts. In this sense, the suspicion, if there is any, of *Zettel* being a “dustbox” is cleared.

7)

There remains to be discussed some other things; for instance, remarks in TS 233 which have other sources than the ones discussed in this paper; also, on a more general level, Wittgenstein's principle of selection from his first materials. I would like to talk about these on other occasions.

References:

Hilmy, Stephen 1987 *The Later Wittgenstein*, Blackwell.

Kenny, Anthony 1984 *The Legacy of Wittgenstein*, Blackwell.

Oku, Masahiro 1998 "To What Extent is Wittgenstein's *Philosophical Investigations* a Patchwork? Proposal for a Research Programme" in Willhelm Krueger und Alois Pichler (hrsg.) *Arbeiten zu Wittgenstein, Working Papers from the Wittgenstein Archives at the University of Bergen*, No. 15, 91-110.

Oku, Masahiro 2002 "Wittgenstein's Later Philosophy of Mathematics", in Rudolf Haller and Klaus Puhl (eds.), *Wittgenstein and the Future of Philosophy*, Vienna: oebv et hpt, 337-344.

Oku, Masahiro 2005 “Philosophico-Philological Studies on Wittgenstein's *Nachlass*” The Report of Research Project, Grant-In-Aid For Scientific Research #14510011 (2002-2004) by Japan Ministry of Education. (forthcoming) -- This booklet. See appendix.

von Wright, G. H. 1981 *Wittgenstein*, Blackwell.

Postscript

Concerning 4j:

Who inscribed *Zettel* section numbers directly into TS 228 and TS 230? The answer: Von Wright. On the top page of TS 228 in the Cornell Copy, one finds the following handwritten comment: (The cross-references [against TS 230] are by Wittgenstein. The encircled cross-references are to *Zettel* and are by von Wright.)

Concerning 6a:

TS 230 is a rearrangement of TS 228 according to the contents of the remarks. At the Symposium one of the audience remarked that TS 230 is very fluently readable and asked for my comment. I had not yet read through TS 230 carefully then. Even after some perusals, however, I still cannot give any definite assessment on the completeness of TS 230. Indeed, TS 230 is more easily readable than *Zettel*, a sheer collection of fragments. However, Wittgenstein would definitely not have published TS 230 as a complete treatise.

7 Appendix: Correlation Tables on TS 228 and TS 233

Remarks:

1) Both tables will look familiar to any Wittgenstein scholars making use of WAB/OUP database or having read Baker/Hacker's Commentaries on *Philosophical Investigations*. However, some remarks may be useful.

2) Remarks in PI (*Philosophical Investigations*), *Zettel*, TS 228 and TS 230 are referred to by section numbers. Those from other materials are usually referred to by pages and sections. For example, "TS 228 1, PI 503, TS 230 18, MS 116 5.2" means TS 228 #1, PI #503, TS 230 #18 and the second section of the fifth page of MS 116.

3) Concerning TS 228 36, PI 1018

"PI 1018" does not mean #1018. "1018" refers to the footnote of p.18 in the Blackwell edition.

4) Concerning TS 228 190, MS 116 *264, MS 115 39.3

In page 264 of MS 116, there is no text, only the reference to MS 115 39.

5) Concerning TS 228 495, MS 114 -27.1

"MS 114, -27" means the 27th page of the unnumbered first part of MS 114. "MS 114, 31.2" refers to the 31st page of the numbered second part of MS 114.

6) Concerning TS 228 600, MS 180a 25v.1

"25v." means the verso of the 25th sheet.

7) References to MS 180a, MS 162b, MS 163 and MS 153a are printed separately. Those remarks are forerunners of TS 228 600-601 and 648-671.

Now, specific comments on TS 233.

8) TS 233 is composed of two notebooks (*Zettel I* and *Zettel II*). In WAB/OUP edition they are named TS 233a and TS 233b. In the present list, a different numbering is adopted. The page of TS 233b should be +100. For example, "TS 233 101.5" means the fifth paragraph of the first page of TS 233b.

9) Concerning TS 233 10a.1

"10a" means a fragment which was put on page 10 and photographed in the Cornell Copy. In WAB/OUP database, the fragment is photographed separately.

10) "HS" means a handwritten manuscript.

11) Z 367.1, Z 460.1 etc. are the remarks which were dropped in the first edition and are printed in the footnotes in the second edition.

12) TS 233 148.x and TS 233 150.x are handwritten manuscripts, however, they are difficult to be given section numbers.

13) Concerning Z 1001 and what follows.

They are the remarks which are included in TS 233, but not printed in *Zettel*. The numbering is my own.

14) Concerning TS 233 167-168

The numbering of TS 233b ends at 66, and the page 66 is blank. However, there are 2 more unnumbered pages. I call them 167 and 168. They correspond to TS 233b, v and TS 233b, vi in WAB/OUP edition.

15) Concerning TS 228A and TS 232A

"TS 228A" and "TS 232A" mean posthumously retyped script of TS 228 and TS 232. Please confer Chapter 6, 4j).

TS228	PI	Zettel	MS129	TS230	MS116	MS115	MS117	TS213	MS114	MS130	MS124	MS128
1	503			18	5, 2							
2	504			19	6, 1							
3		29		23	7, 1							
4		30		24	7, 2							
5		74			9, 1							
6	508				10, 1							
7	507			20	10, 2							
8				21	11, 2							
9	525			55	11, 3							
10	526			54	12, 1							
11		219		32	15, 3							
12		3			16, 4							
13				110	18, 2							
14		245			19, 1							
15		298			19, 2							
16		227		33	20, 1							
17	505			103	20, 2							
18		284		104	21, 1							
19		285		107	21, 2							
20		286		106	21, 3							
21	431			187	22, 1							
22		229			23, 2							
23		287		100	23, 3							
24		283			24, 1							
25	506			102	25, 3							
26		218		101	25, 4							
27		52		480	26, 1							
28					26, 2							
29	388				27, 2							
29	388				27, 3							
30	389			184	28, 1							
31	451				28, 2							
32		10			29, 2							
33		11		87	31, 2							
33		11		87	31, 3							
34				17	31, 4							
35	560				32, 2							
36	1018				33, 1							
37		186		105	35, 2							
37		187		105	35, 2							
38	239	367, 1		328	37, 2							
39		66		329	38, 1							
40		315			39, 1							
41		316		163	43, 1							
42		270		164	51, 2							
42		272		164	51, 2							
43		262			53, 1							
44		463			53, 2							
45		273		363	54, 1							
46		149		53	59, 4							
47	513			114	60, 1							
47	513			114	61, 1							
48		297			61, 2							
49	511				65, 1							
49		247			65, 1							
50	465			214	67, 1							
51	430			186	67, 3							
52					67, 4							
53		56		192	68, 1							
54		652			66, 1							
55		228		201	68, 2							
56	438			212	69, 2							

117		531		358	139, 1								
118	349			359	140, 2								
119	350			361	141, 1								
120	351			362	142, 2								
121	352			360	148, 2								
122	403			315	154, 3								
123	404			307	155, 1								
124	405			308	157, 2								
125	406			309	158, 1								
126	425			356	158, 2								
127	426			357	162, 3								
128					164, 1								
129	407				165, 1								
130				310	167, 1								
131	408			311	169, 1								
132	409			312	169, 2								
133				313	171, 3								
134					174, 2								
135		549		304	176, 1								
136		550			177, 1								
137		134			178, 3								
138	248			338	179, 1								
139	411			314	183, 1								
140	133			542	186, 1								
141	666			419	187, 1								
142	667			420	188, 1								
143	668			421	188, 2								
144	669			422	189, 1								
145	671			424	189, 2								
146	672			425	190, 1								
147	673			426	191, 1								
148	670			423	192, 1								
149		426		318	192, 3								
150	674			393	193, 1								
151	675			394	198, 1								
152	677			395	201, 1								
153	367			158	205, 2								
154	297			321	207, 1								
155	294			332	209, 2								
156	398			377	210, 2								
157	402				213, 1								
158				305	213, 1								
159				500	217, 2								
160				501	217, 3								
161	414			118	221, 1								
162	399				221, 2								
163				382	221, 3								
164	400			383	221, 4								
165		215		384	222, 1								
166	401			385	222, 2								
167		670			223, 1								
168		244		112	223, 3								
168		244		303	223, 3								
169					224, 1								
170		251			234, 2								
171				380	235, 3								
172				381	236, 1								
173	626			386	240, 1								
174	376			374	242, 1								
175	374			368	243, 2								
176	306			347	246, 1								
177	265			319	248, 1								
178		230			250, 1								

528	329			70					151, 1			
529	465								151, 3			
530		55							152, 4			
531	429			180					152, 5			
532	522			56					154, 1			
533	1147			121					157, 1			
534		226							155, 3			
535				11					162, 2			
536				12					163, 1			
537	495			14					163, 2			
538	498			15					166, 1			
539	499			154					166, 2			
540		322		16					167, 1			
541				13					169, 3			
542									170, 1			
543	492			10					172, 1			
544		143		36					190, 1			
545	1033								194, 1			
546	433			189					196, 1			
547		63							200, 1			
548		231		203					206, 1			
549		232							207, 1			
550		233		204					207, 3			
551		234							209, 1			
552		235		205					209, 2			
553		236		206					211, 1			
554		237		207					212, 2			
555		238							214, 3			
556	434			190					215, 4			
557	428			179					222, 1			
557	428			179					222, 2			
558	428								223, 1			
559	333			94					225, 1			
560	455			208					227, 3			
561	456								227, 5			
562	457			209					227, 6			
563	589			484						1, 1		
564	590			485						4, 1		
565		281		69					-29, 2			
566	606			68						2, 3		
566	606			534						2, 3		
567	594			38						5, 3		
568		717		340						7, 1		
569	325			290						8, 1		
570	579			291						9, 1		
571	325			292						9, 2		
571	325			292						9, 3		
572		692		131						11, 2		
573	125			132						12, 1		
574	125			133						12, 2		
575		685		134						13, 1		
576		686		135						13, 2		
577		687		136						13, 3		
578	125			137						13, 4		
579		688		138						14, 1		
580		689		139						14, 2		
581		690								14, 3		
582	125			140						14, 4		
583	269			327						15, 1		
584		12		407						16, 1		
585	687			413						16, 2		
586		19								17, 1		
587	676			392						17, 2		

588	580			371					18, 1		
589	678			427					18, 2		
590	679			428					19, 1		
591		16		430					19, 2		
591		16		430					20, 1		
592		20		431					20, 2		
593		125							20, 4		
594		126							21, 1		
595	331			98					23, 2		
596	219			239						45, 4	
596	219			239						45, 5	
597	219			240						45, 6	
598	220									46, 1	
599	221			241						46, 2	
600		212									
601		213									
602	386			39						1, 2	
603	222									152, 1	
604	230			248						152, 2	
605	237			249						152, 3	
606	237			249						153, 1	
607	226			251						153, 2	
608	227			252						155, 2	
609	232			257						157, 1	
610	233			258						157, 2	
611		279								160, 2	
612	236			261						160, 3	
613	225			255						162, 2	
614	222									163, 1	
615		280		259						163, 2	
616	234			260						164, 1	
617	235									164, 2	
618		282								165, 1	
619	232										
620		299								180, 3	
621	228									184, 2	
622	231			242						184, 4	
623		276		244						185, 3	
624		277								186, 1	
625				245						248, 1	
626	245			343						270, 3	
627	299			246	316, 2						
628	487			267	316, 3						
629		48		496	317, 1						
630	453			197	317, 2						
631	486			288	318, 1						
632	486			289	318, 2						
633	370			367	319, 1						
634	255			247	323, 3						
635	423			353	324, 1						
636	424			354	325, 1						
637	658			355	324, 2						
638				538	325, 3						
639				539	328, 1						
640	596			533	328, 2						
641	597			540	329, 1						
642	598			541	330, 1						
643		486	199, 2	344							
644		487	200, 1	345							
645	637		200, 2	444							
646		51	201, 1	481							
647	464		202, 1	37							
647	464		202, 1	188							

TS228	PI	Zettel	TS230	MS180a	MS162b	MS163	MS153a
600		212		25v.1			
601		213		26r.1			
648		654	454		59v.1		
649		267			33r.1		
650	300	552	342		33v.2		
651	300				34r.2		
652		249			38v.2		
653		265	169		39r.2		
654		271	170		40v.1		
655		264	171		40v.2		
656		585	172		41v.2		
657		268	173		45r.2		
658	368		109		49r.2		
659		434	300		52r.2		
660			301		52v.1		
661		717	378		54r.1		
662	600		532				
663	609		59		57v.1		
663	609		59		57v.2		
663	609		59		57v.3		
664	610		111		58r.1		
665		695				51v.1	
666	516		119			52r.1	
666	516		119			52r.2	
667	517		120			52v.1	
668		696				53r.1	
669		697				53r.2	
670		250	117			74r.1	
671	436						58v.1

Zettel	TS233	TS228	TS228A	TS229		TS232A	TS232	TS220	TS211	TS242	TS210	TS209
1	1.1						574					
2	1.1						574					
3	1.2	12										
4	1.3	427										
5	1,4		106									
6	1,5						258					
7	2.1	202										
8	2.2	202										
9	2.3	236										
10	3.1	32										
11	3.2	33										
12	3.3	584										
13	3.4	199										
14	3.5	237										
15	3.6	212										
16	3.7	591										
17	4.1	235										
18	4.2	239										
19	4.3	586										
20	4.4	592										
21	4.5	195										
22	5.1	192										
23	5.2	319										
24	5.3	356										
25	5.4	207										
26	6.1	225										
26	6.1	226										
27	6.2-8.0	234										
28	8.1	323										
29	8.2	3										
30	8.3	4										
31	8.4				HS							
32	8.5-10.0				HS							
33	10.1-10.2				HS							
34	10a.1				HS							
35	10.3-12.0	206										
36	12,1	203										
37	12.2								299,2			
38	12.3	325										
39	12.4				1803							
40	12.5				1804							
41	12.6	221										
42	14.1				HS							
43	14.3				HS							
44	14.4						581					
45	14.5						177					
46	14.6	307										
47	15.1	307										
48	15.2	629										
49	15.5				1498							
50	15.6						257					

51	16.1		646										
52	16.2		27										
53	7.1	242											
54	7.2	509											
55	9.1	530											
56	9.2	53											
57	9.3	521											
58	9.4	516											
59	9.5	517											
60	9.6	513											
61	9.7	520											
62	11.1	515											
63	11.2	547											
64	11.3	248											
65	11.4	288											
66	11.5	39											
67	11.6-13.0	285											
68	13.1	525											
69	13.2-13.3	514			HS								
70	13.4	515											
71	16,3		80										
72	16,4						57						
73	17.1								241,4				
74	17.2	5											
75	17.3			1639									
76	17.4			1640									
77	17.4			1640									
78	17.5						721						
79	17.6						4						
80	18.1						728						
81	18.2						50						
82	18.3						51						
83	18.4						52						
84	18.5						48						
85	18.6						45						
86	19.1			1461									
87	19.2						46						
88	19.3						252						
89	19.4						211						
90	19.5						235						
91	19.6						236						
92	20.1						262						
93	20.2					247	247						
94	20.3						248						
95	20.4						232						
96	20.5					256							
97	20.6				HS								
98	20.7			1227									
99	21.1						204						
100	21.2					182	182						
101	22.1						183						
102	22.2					185	185						

310	64.2			1303								
311	64.3			1304								
312	65.1			1305								
313	65.2	276										
314	65.3	434										
315	65.4	40										
316	65.5	41										
317	66.1								391,2			
318	66.2						412					
319	66.3						413					
320	66.4	387										
321	67.1	388										
322	67.2	540										
323	67.3			1255								
324	67.4	499										
325	67.5	500										
326	67.6	111										
327	67.7	114										
328	67.8						719					
329	68.1								351,4			
330	68.2						394					
331	68.3	386										
332	69.1			1312								
333	69.2			1288								
334	69.3								236,3			
335	69.4								236,5			
336	69.5								236.6-237.2			
337	69.6								237,3			
338	70.1			1273								
339	70.2			1274								
340	70.3			1275								
341	70.4			1283								
342	70.5			1284								
343	71.1			1284								
344	71.2			1285								
345	71.3			1286								
346	71.4			1292								
347	71.5			1762								
348	72.1	104										
349	72.2	402										
350	72.3						391					
351	72.4						392					
352	72.5						726					
353	101.1						436					
354							<422					
355	101.2						423					
356	101.3						424					
357	101.4						425					
358	101.5						426					
359	101.6						427					
360	102.1			1524								
361	102.2			1525								

362	102.3					428					
363	102.4					430					
364	102.5					431					
365	102.6					432					
366	102.7					347					
367	103.1					348					
367,1	103,2	38									
368	103.3			1271							
369	103.4			1272							
370	103.5			1772							
371	103.6			1624							
372	104,1			1314							
373	104,2					692					
374	104,3					682					
375	104,4					678					
376	104a.1				HS						
377	104a.2				HS						
378	104,5					679					
379	104,6					680					
380	104,7					637					
380	104,7					680					
381	104,8					639					
382	105,1					640					
383	105,2					705					
384	105,3					709					
385	105a.1				HS						
386	105a.2				HS						
387	105,4					706					
388	105,5					707					
389	105,6					630					
390	106.1					699					
391	106.2					631					
392	106.3					621					
393	106.4					604					
394	108a.1			1597							
395	108a.2			1598							
396	107,1			1599							
397	107,2			1600							
398	107,3			1601							
399	107,4			1602							
400	106.5			1604							
401	108,1			1605							
402	108,2			1606							
403	108.3					644					
404	108.4					645					
405	108.5					736					
406	108.5					736					
406	108.6					299					
407	108.7								11,3		
408	109.1					302					
409	109.2					342					
410	109.3					342					

411	109.4						335					
412	109.5						336					
413	109.6						337					
414	110.1						338					
415	110.2						339					
416	110.3						340					
417	110.4						317					
418	110.5						325					
419	110.6						326					
420	110.7						329					
421	111.1					311	311					
422	111.2						314					
423	111.3						315					
424	111.4						316					
425	111.5						317					
426	111.6	149										
427	111.7			1753								
428	112.1				HS							
429	112.2				HS							
430	112.3				HS							
431	112.4				HS							
432	112.5						312					
433	112.6			2012								
434	113.1	659										
435	113.2			1766								
436	113.3								516,2			
437	114.1	457										
438	114.2	452										
439	114.3					613						
440	114.4							92				
441	115.1							71				
441	115.1							72				
442	116.1							72				
443	116.2							87				
444	116.3							74				
445	117.1							73				
446	117.2							109				
446	117.2							110				
447	118.1							93				
448	118.2							89				
449	118.3				HS							
450	118.4			1374								
451	118.5			1459								
452	119.1	495										
453	119.2				TS							
454	119.3								44,1			
455	119.4								465,1			
456	119.5								593,1			
457	120.1								311,5			
458	120.2			1616								
459	120.3								225,5			
460	120.4								497,1			

460,1	120,5							9,2			
461	120.6						103				
462	120.7							696,1			
463	120a.1	44									
464	120.8			1563							
465	120.9					310					
466	120.10				HS						
467	121.1	430									
468	121.2							19			
469	121.3					15	15				
470	121.4				HS						
471	121.5				HS						
472	121.6							63			
473	122.1							58			
474	122.2							59			
475	122.3							60			
476	122.4							61			
477	122.5			1370							
478	122.6			1615							
479	122.7			1464							
480	122.8			1452							
481	123.1			1454							
482	123.2			1363							
483	123.3							63			
484	124.1							497			
485	124.2							498			
486	124.3	643									
487	124.4	644									
488	124.5							147			
489	125.1					147					
490	125.2							147			
491	125.3							147			
492	125.4					147	147				
493	125.5				HS						
494	125.6				HS						
495	125.7							324			
496	125.8							171			
497	126.1			2007							
498	126.2			2008							
499	126.3			1398							
500	126.4							157			
501	126.5							160			
502	126.6							173			
503	126.7			1592							
504	126.8			1626							
505	127.1			1593							
506	127.2	420									
507	127.3			1468							
508	127.4			1469							
509	128.1			1470							
510	128.2			1471							
511	128.3					306					

512	128.4					158					
513	128.5					319					
514	128.6	251									
515	128.7					497					
516	128.8					720					
517	129.1			1521							
518	129.2					307					
519	129.3					308					
520	129.4					309					
521	129.5	189									
522	129.6	190									
523	129.7					165					
524	129.8					332					
525	130.1					166					
526	130.2					323					
527	130a.1					613					
528	130.3			765							
529	131,1			766							
530	132.1			770							
531	132.2	117									
532	132,3				HS						
533	132,4				HS						
534	132a.1					150					
535	132,5					142					
536	132,6				HS						
537	133.1					718					
538	133.2			1580							
539	133.3			1581							
540	133.4			1582							
541	133.5			1583							
542	133.6			1584							
543	133.7					616					
544	134.1	71									
545	134.2				HS						
546	134.3				HS						
547	135.1				HS						
548	135.2				HS						
549	135.3	135									
550	135.4	136									
551	135.5			1477							
552	136.1	650									
553	136.2					646					
554	136.3					708					
555	136.4					681					
556	136.5					620					
557	136.6					701	701				
557	105b.1						701				
558	137.1						702				
559	137.2				HS*						
560	137.3						647				
561	137.4						668				
562	137.5						669				

611	146.3			1574								
612	145.4			1576								
613	146.1			1576								
614	146.2			1585								
615	146.4							422,4				
616	146.5										129,6	
617	146.6							234,1				
618	147.1						26					
619	147.2							234,3				
620	147.3	260										
621	147,4						63					
622	148.1						64					
623	148.2						65					
624	148.3						66					
625	148.4						70					
625	148.5						71					
626	148.6						72					
627	148.7						80					
628	148.x			HS								
629	149.1						77					
630	149.2						86					
631	149.3						86					
632	149.4						87					
633	149.5						88					
634	149.6						97					
635	150.1						99					
636	150.2						109					
637	150.3						110					
638	150.4						111					
639	150.x			HS								
640	150.5						112					
641	151.1						122					
642	151.2						123					
643	151.3						118					
644	151.4						136					
645	151.5						137					
646	151.6						138					
647	152.1						139					
648	168,1			1603								
649	152.2	185										
650	153.1			1798								
651	153.2	186										
652	153.3	54										
653	153.4	425										
654	153.5	648										
655	153.6			1394								
656	154,1			1559								
657	154,2						350					
658	154,3						351					
659	154,4						352					
660	155,1						345					
661	155,2						582					

662	155,3					591					
663	155,4					592					
664	156.1					593					
665	156.2					594					
666	156.3					595					
667	156.4					596					
668	156.5	98									
669	156.6						106				
669,1	156,7	269									
670	156,8	167									
671	156,9			HS							
672	157.1	85									
673	157.2					511					
674	157.3					519					
675	157.4	81									
676	158.1							601.3-602.1			
677	158.2					104					
678	158.3			1607							
679	158.4			1608							
680	159.1			1609							
681	159.2					730					
682	159.3					731					
683	159.4	73									
684	159.5						15				
685	160.1	575									
686	160.2	576									
687	160.3	577									
688	160.4	579									
689	160.5	580									
690	160.6	581									
691	160.7							759,2			
692	160.8	572									
693	160.9	470									
694	161.1			1764							
695	161.2	665									
696	161.3	668									
697	161.4	669									
698	162.1			1446							
699	162.2			996							
700	162.3			1618							
701	162.4							599,6			
702	162.5								78,1		
703	162.6							371,5			
703,1	163,1							117,9			
704	163.2									40,5	
705	163.3								20,1		
706	163.4							552,3			
707	163.5			1765							
708	163.6									95,8	
709	163.7							103,1			
710	163.8							102,9			
711	163.9							498,2			

712	164.1							421,4			
713	165.1			1613							
714	165.2			1259							
715	165.3			1260							
716	165.4							288.6-7			
717	167,3	568									
1001	14.2			HS							
1002	15.3	284									
1003	15.4	308									
1004	45.6					304					
1005	55.7							285			
1006	61,4	569									
1007	61,5	66									
1008	62.1	571									
1009	62.2			1289							
1010	113.4	454									
1011	113.5	455									
1012	133b.1			HS							
1013	167,1	215									
1014	167,2	94									
1015	167,4	288									
1016	168,2					505					
1017	168,3	168									
1018	168,4					296					