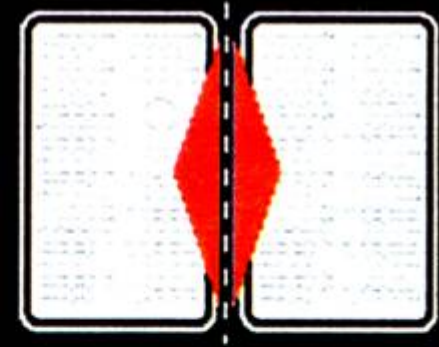


1. The book was taken apart



2. Archimedes' text was scraped off



3. The sheets were cut in half



4. The sheets were rotated



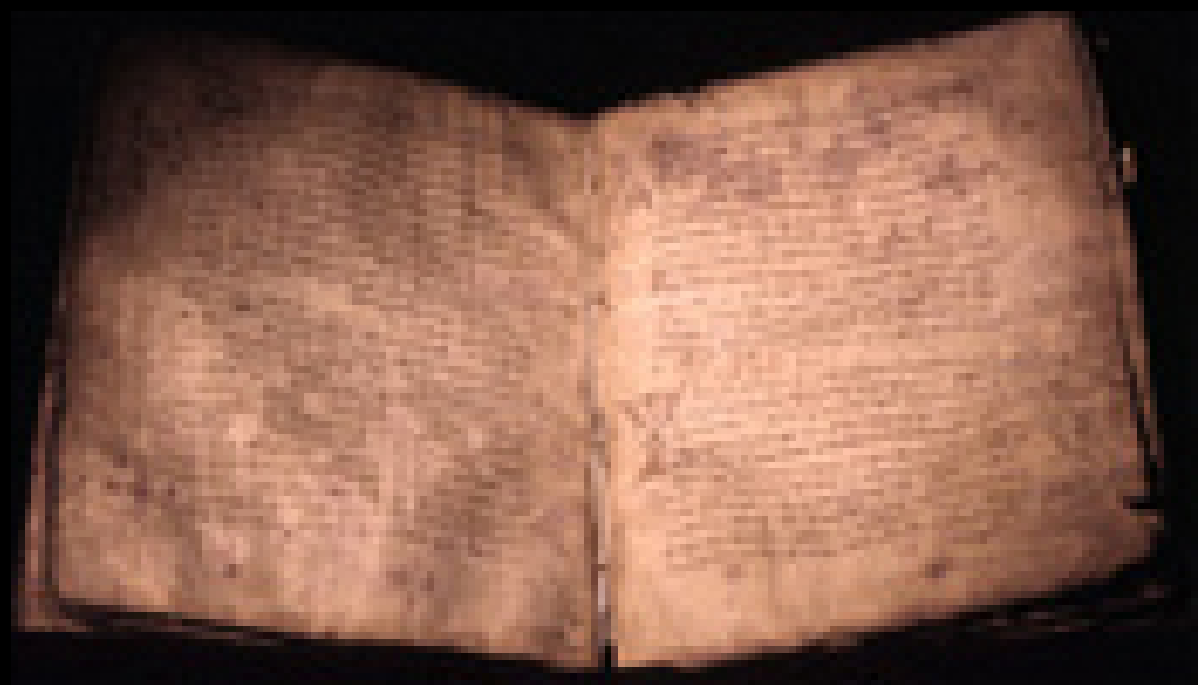
5. New text was written



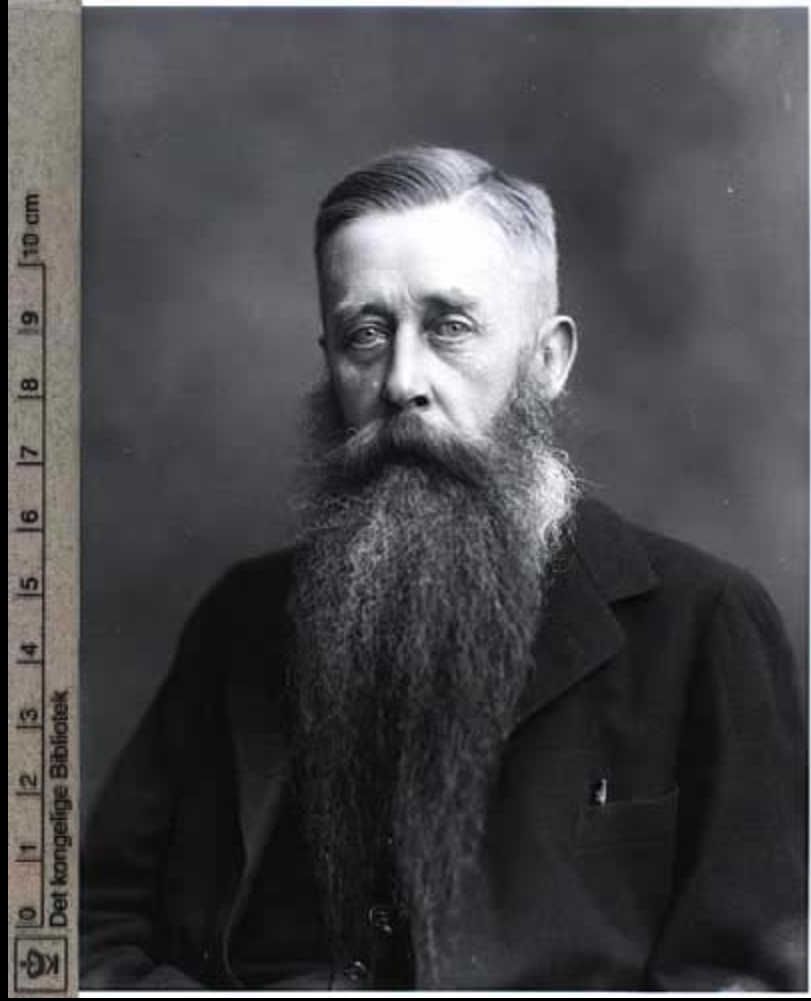
6. The pages were assembled



7. The prayer book was bound







"All the News That's
Fit to Print."

The New York Times.

THE WESTERN
UNION TELEGRAPH CO.

TEACHER IN CAMP OF TEACHERS

Eight Teachers Will Travel
to the South Coast
for a Conference.

NEW LITERARY FIND IN CONSTANTINOPLE

Savant Discovers Books by
Archimedes, Copied About
900 A. D.

NEW BRIDGE DISCOVERED

Remains of Roman Bridge
Found in the City.

EXCITING ON BATT

Warship Sighted
Off the Coast.

NEW BRIDGE DISCOVERED

Remains of Roman Bridge
Found in the City.

EXCITING ON BATT

Warship Sighted
Off the Coast.

EXCITING ON BATT

Warship Sighted
Off the Coast.

NEW YORK

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BIG LITERARY FIND IN CONSTANTINOPLE

Savant Discovers Books by
Archimedes, Copied About
900 A. D.

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Photographs by Michelle V. Agnes/The New York Times

The oldest surviving copy of important mathematical works of Archimedes was sold at auction in New York.

Archimedes Text Sold for \$2 Million

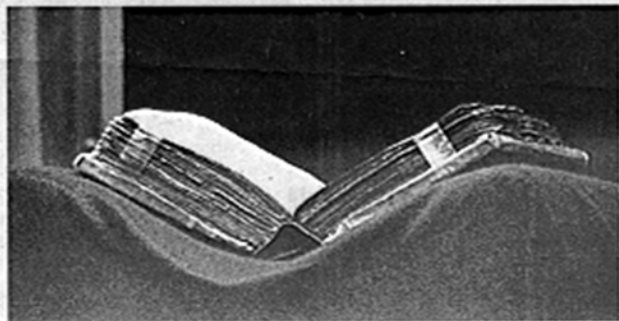
By MALCOLM W. BROWNE

A scorched and moldy volume of thousand-year-old pages — the oldest surviving copy of important mathematical works of Archimedes — was sold at auction yesterday for \$2 million, double the expected price.

The winning bid, at Christie's of New York City, was made by Simon Finch, a London book dealer, who said he had acted on behalf of an unidentified private American collector. The seller was identified only as a French family that acquired the volume in the early 1920's.

The volume includes copies of two of Archimedes' greatest works: "Method of Mechanical Theorems," which includes ideas startlingly reminiscent of modern calculus, and "On Floating Bodies," which puts forth his laws of flotation.

They are in palimpsest form: that is, the original inked copy of Archimedes' texts, written by a 10th-century scribe, was washed off by Byzantine monks in the 13th century so that the expensive vellum on which it was written could be reused. The Archimedes text was made almost illegible by the washing and then covered by the later religious text.



Ownership of the Archimedes manuscript is being contested, by the Greek Orthodox Patriarch of Jerusalem on grounds that it was stolen.

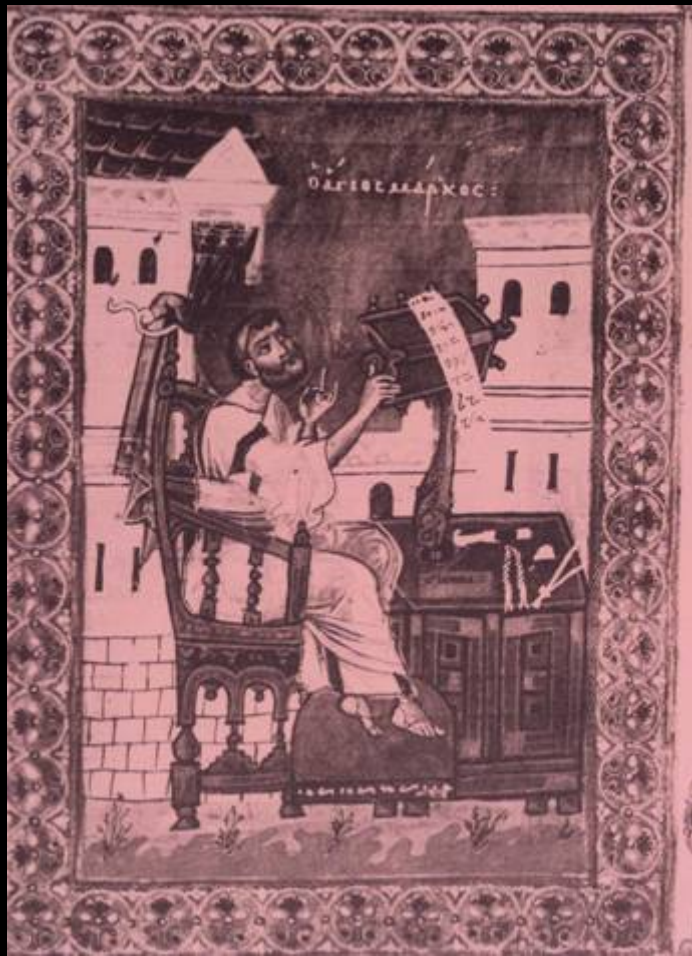
A reported pledge not to limit access to an ancient manuscript.

scholars who could mine its riches."

But Felix de Maraz Oyens, a Christies expert on ancient manuscripts, offered some consolation. Mr. de Maraz Oyens, who knows the identity of both the seller and buyer, predicted that scholars would be given access to the work.

"The buyer told me he would allow





177
178

Handwritten text in a medieval script, likely Latin, on aged parchment. The text is arranged in several columns and is heavily obscured by large, dark brown stains, particularly in the center and right-hand side. The parchment shows signs of significant wear and discoloration. There are some faint markings and a small number '177' written in blue ink on the left margin, and another '178' at the top left.

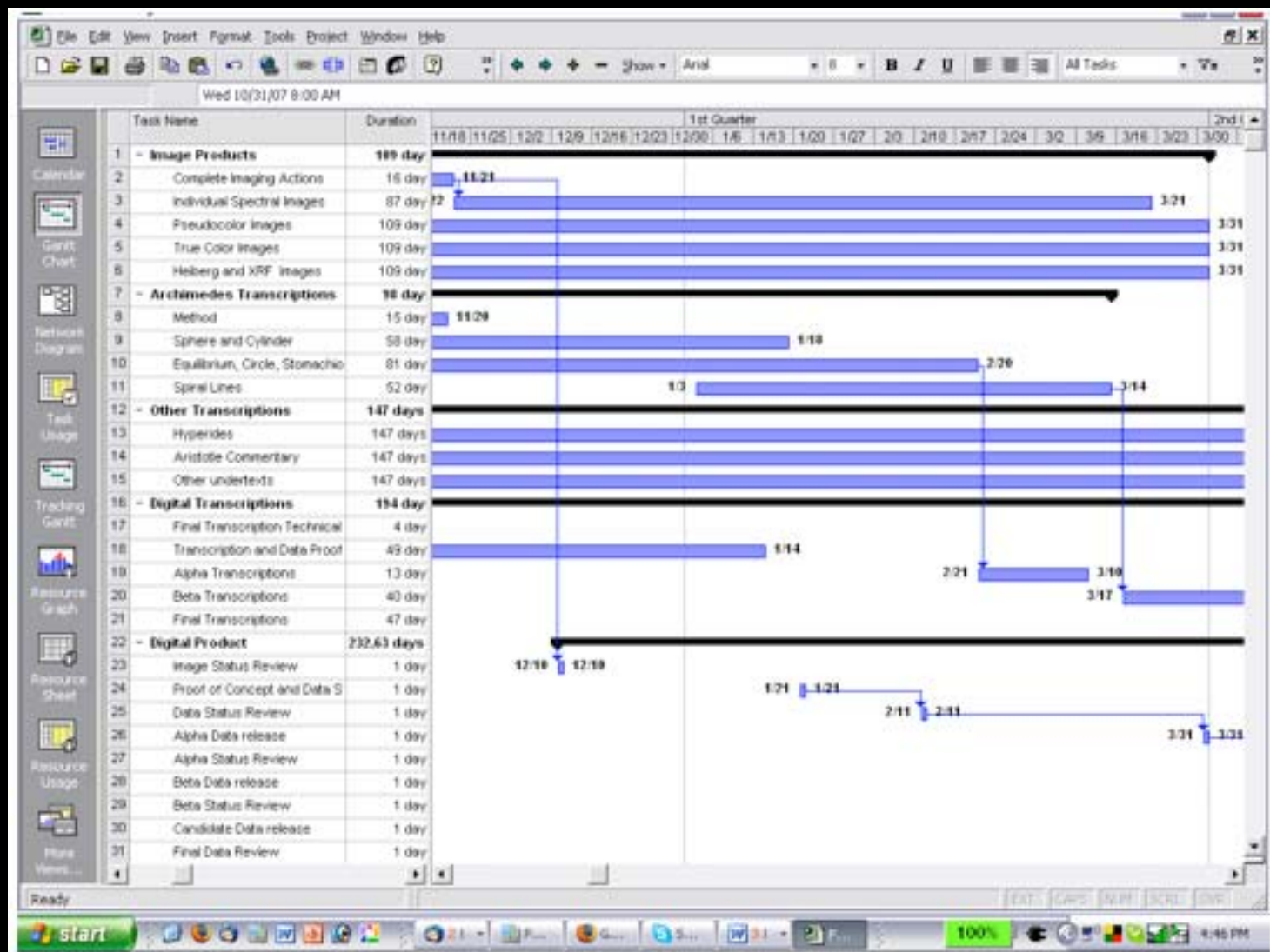
Handwritten text in a medieval script, likely Latin, on aged parchment. The text is arranged in several columns and is heavily obscured by large, dark brown stains, particularly in the center and right-hand side. The parchment shows signs of significant wear and discoloration. There are some faint markings and a small number '177' written in blue ink on the left margin, and another '178' at the top left.

Fragment of an ancient papyrus scroll containing Greek text. The fragment is heavily stained and damaged, with significant portions missing, particularly on the left and bottom edges. The text is written in a cursive script, likely from the Hellenistic or Roman period. A large, ornate initial letter is visible on the left side, marking the beginning of a section. The text is arranged in approximately 15 lines, though many characters are obscured by ink bleed-through or damage. The fragment is mounted on a light-colored background.











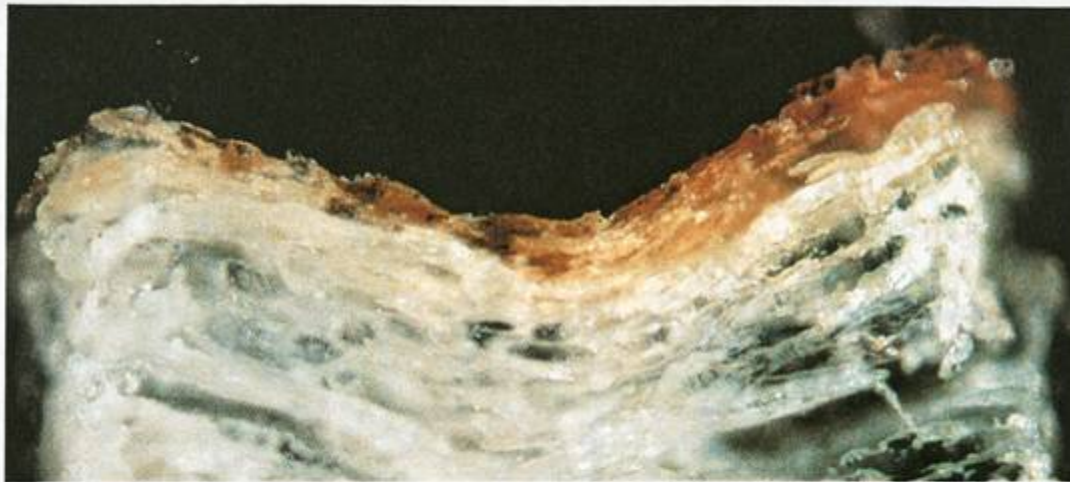
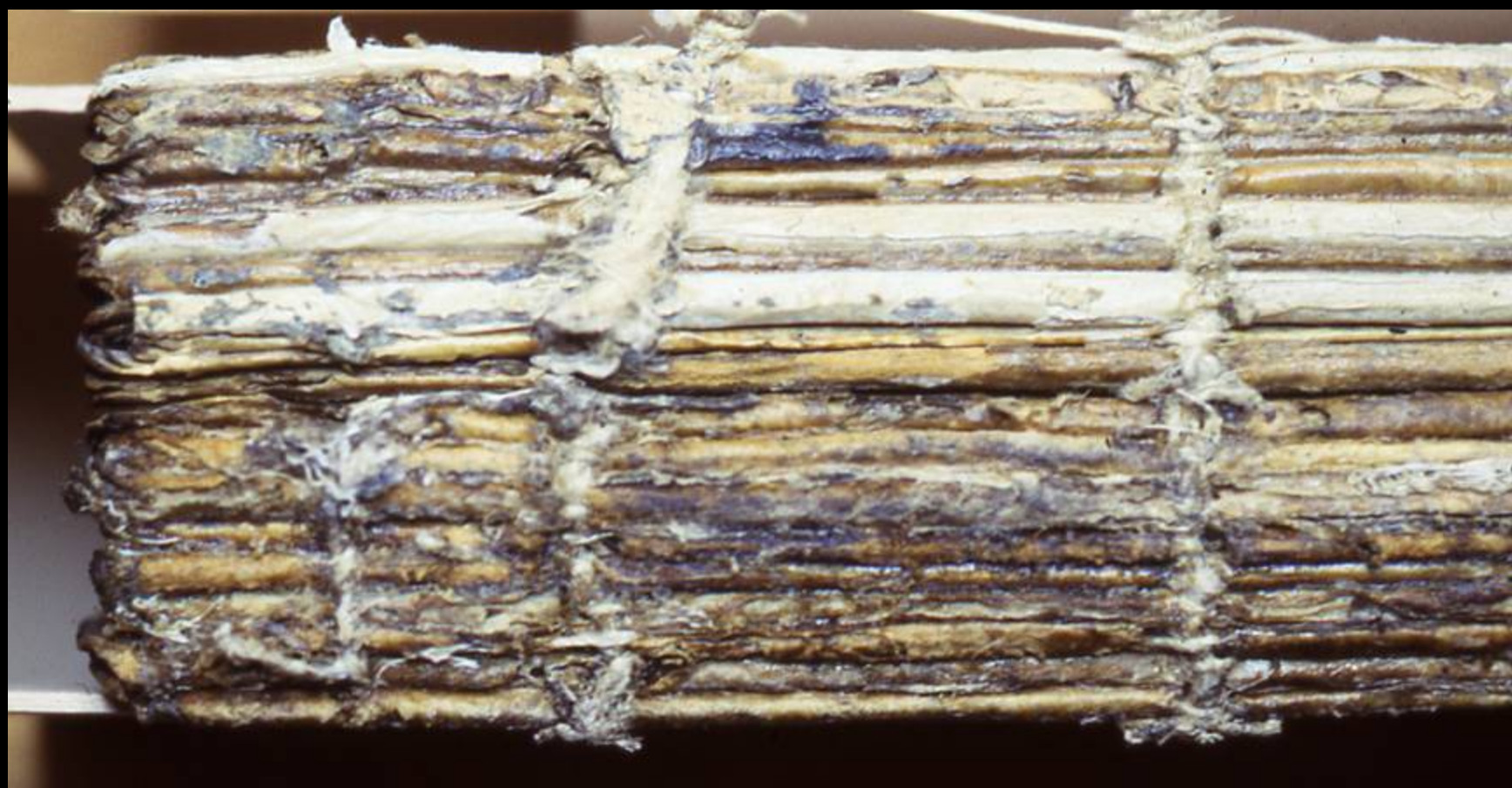


Figure 58 Incident polarizing microscope photomicrograph of a hand-cut cross section through micro core sample 058 (image width 1025 μm). The top layer of collagen fibers contains the brown remnant ink line from an illustration. Below this top surface layer are many layers of collagen fibers making up the thickness of the parchment. The cupping is due to the manner of sampling; the top surface and internal layers of the sample were originally flat.











ARCHIMEDES FRAGMENTS

Fragment XVII
(ff. 108-110)

Fragment XVIII
(ff. 111-115)

Fragment XVI
(ff. 104-107)

Fragment XIV
(ff. 92)

Fragment XV
(ff. 91-95)

Fragment I
(ff. 36-38)

Fragment XII
(ff. 22-24)

Fragment XIII
(ff. 25-29)

Fragment II
(ff. 17-20)

Fragment VIII
(ff. 39-40)

Fragment X
(ff. 29-34)

Fragment III
(Fragment -
Front cover)

Fragment VI
(ff. 20)

Fragment VII
(ff. 21-28)

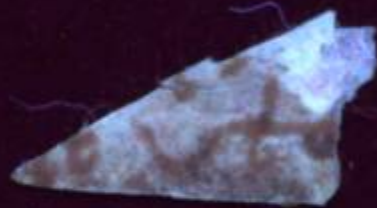
Fragment V
(Fragment -
BINDING)

Fragment IX
(Fragment -
Unidentifiable
Parchment)

Fragment XI
(Fragment -
Unidentifiable
Parchment)



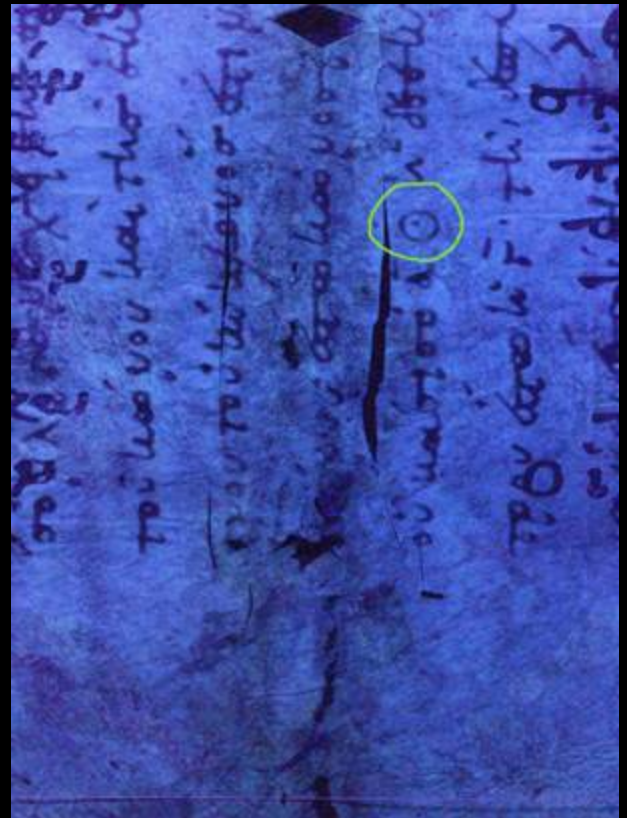
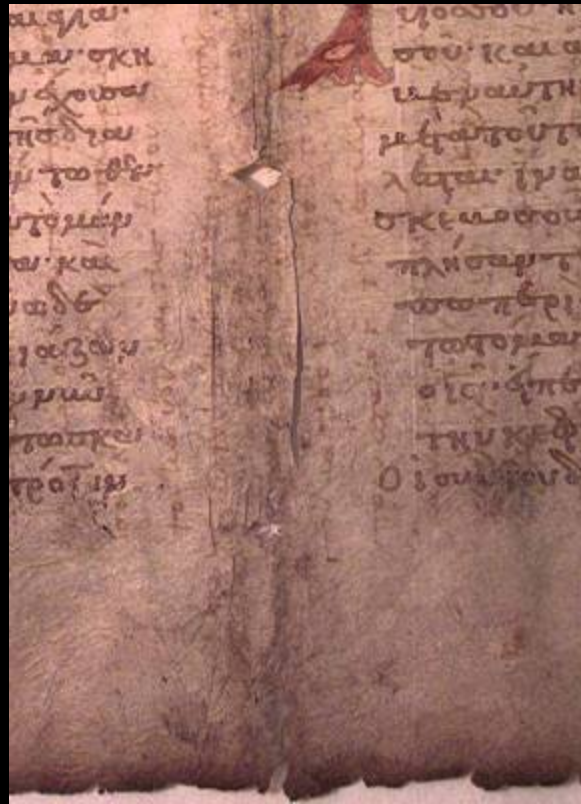
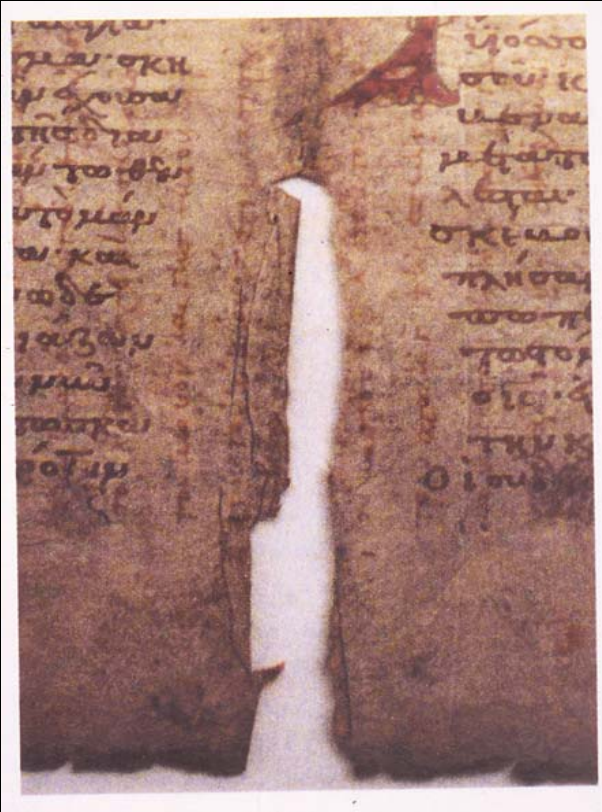








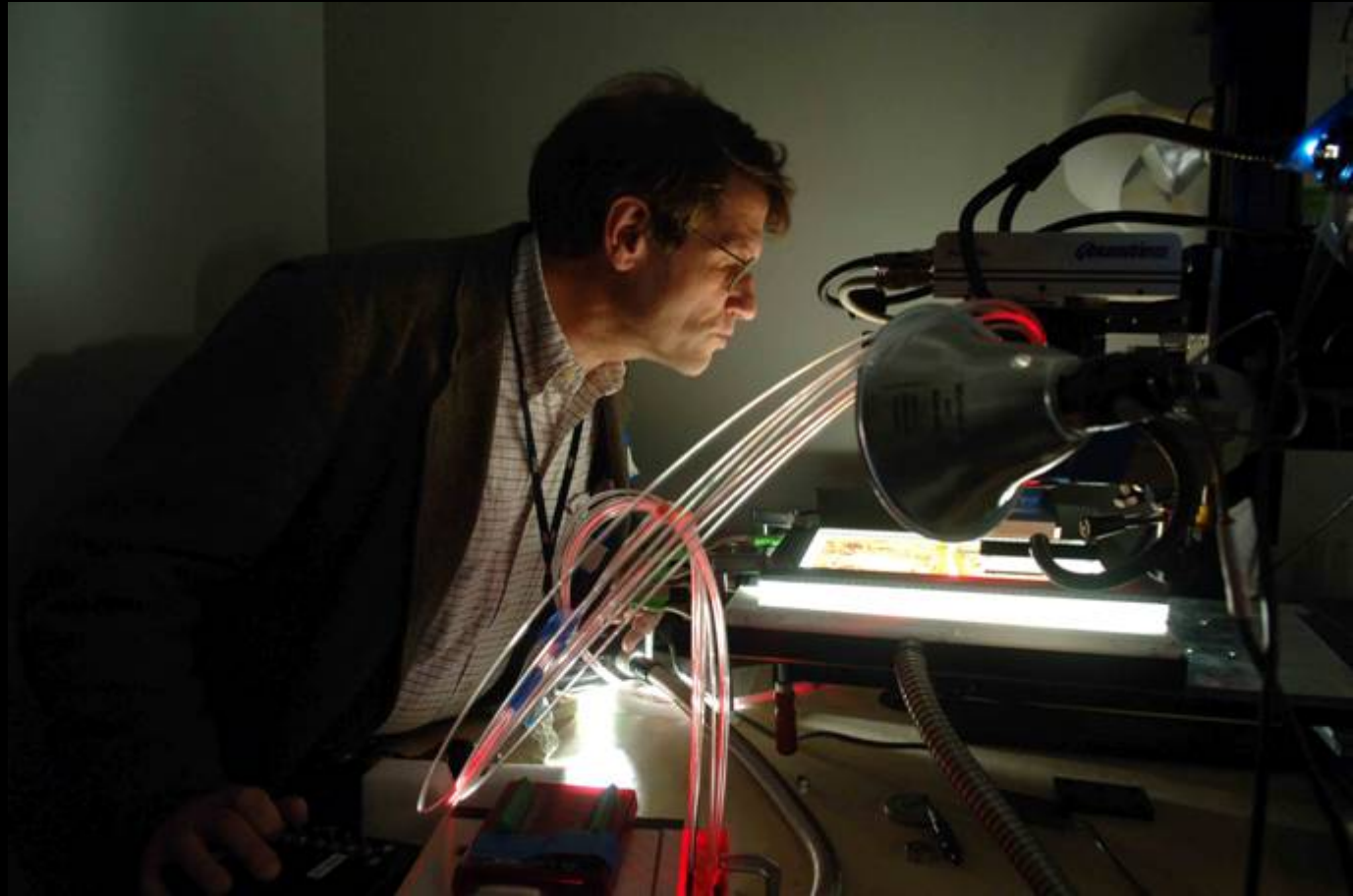




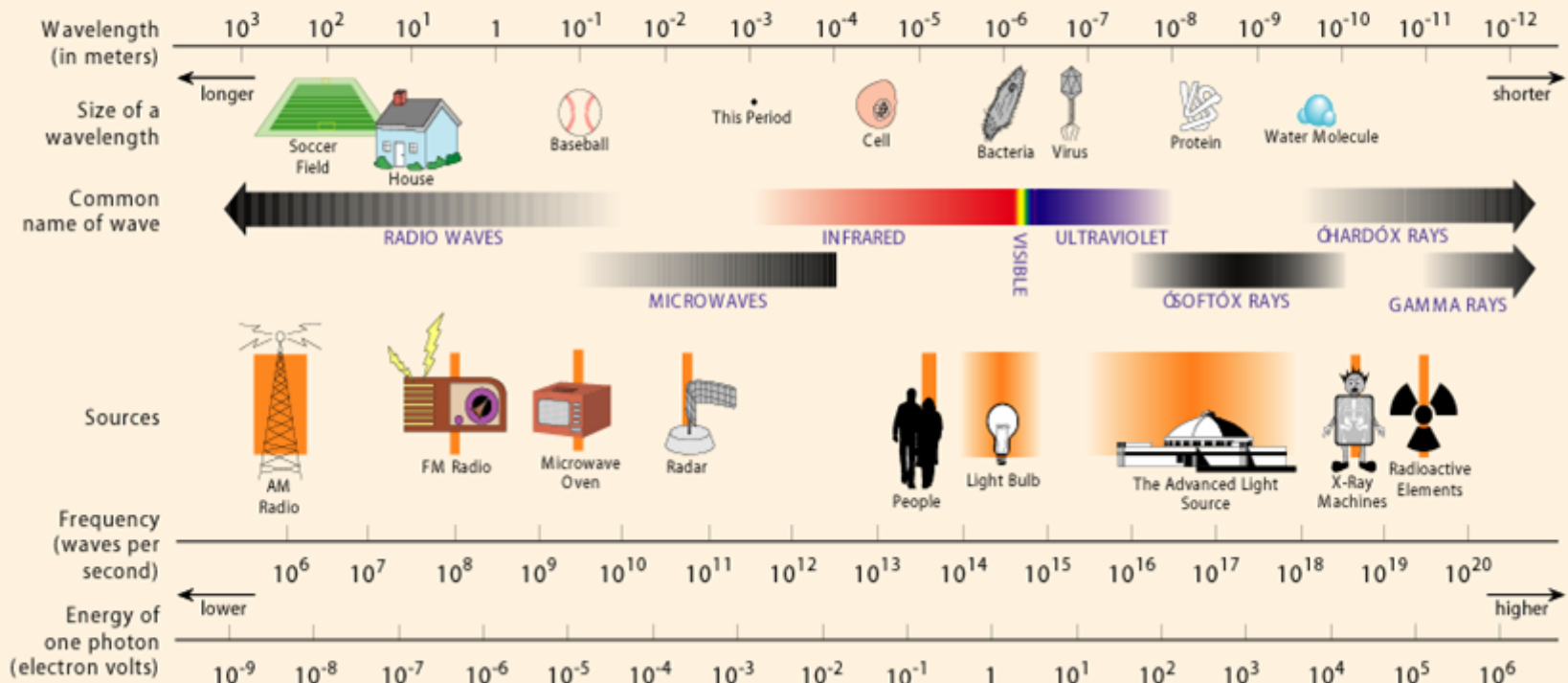






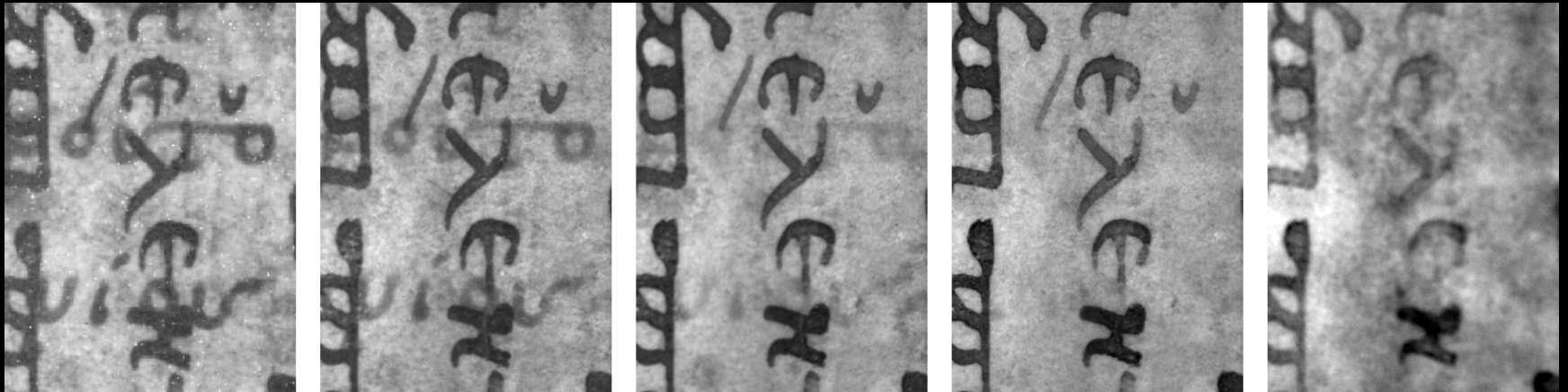


THE ELECTROMAGNETIC SPECTRUM

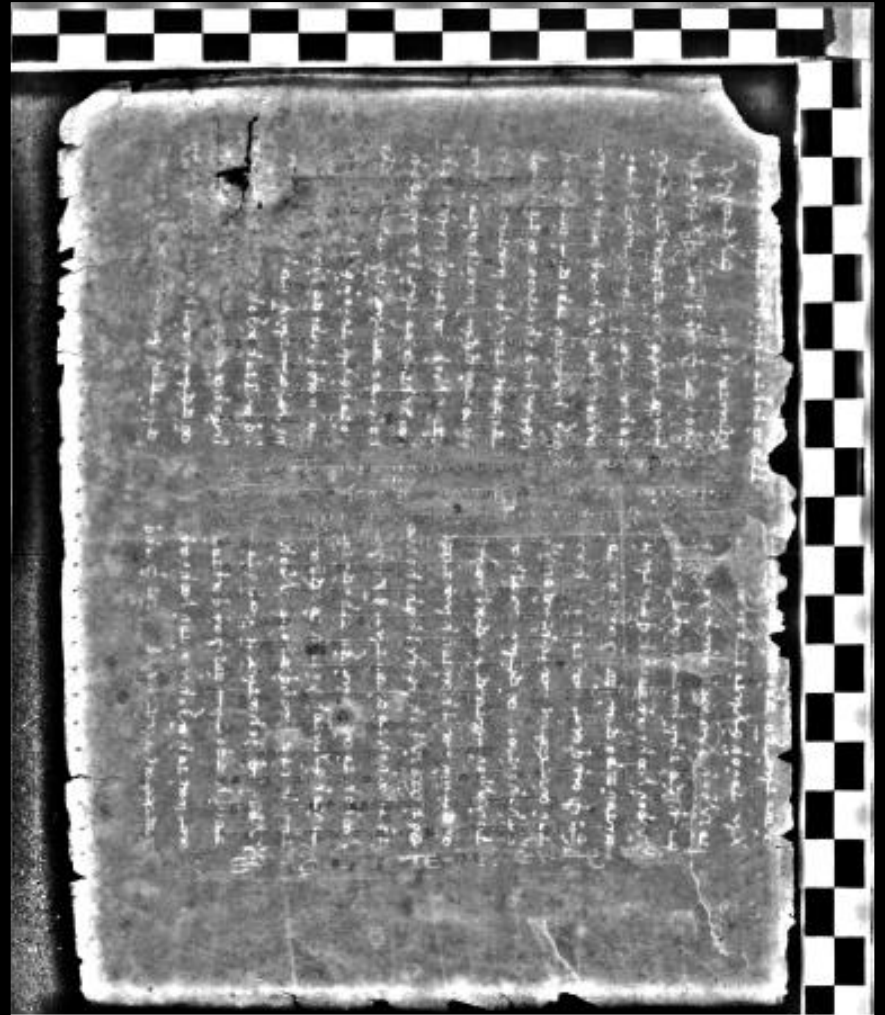




Differentiate objects (e.g., inks) based on spectral “signatures”



Contrast of BOTH texts *decreases* with increasing λ
(Contrast of erased text decreases faster)





FAILURE

WHEN YOUR BEST JUST ISN'T GOOD ENOUGH.





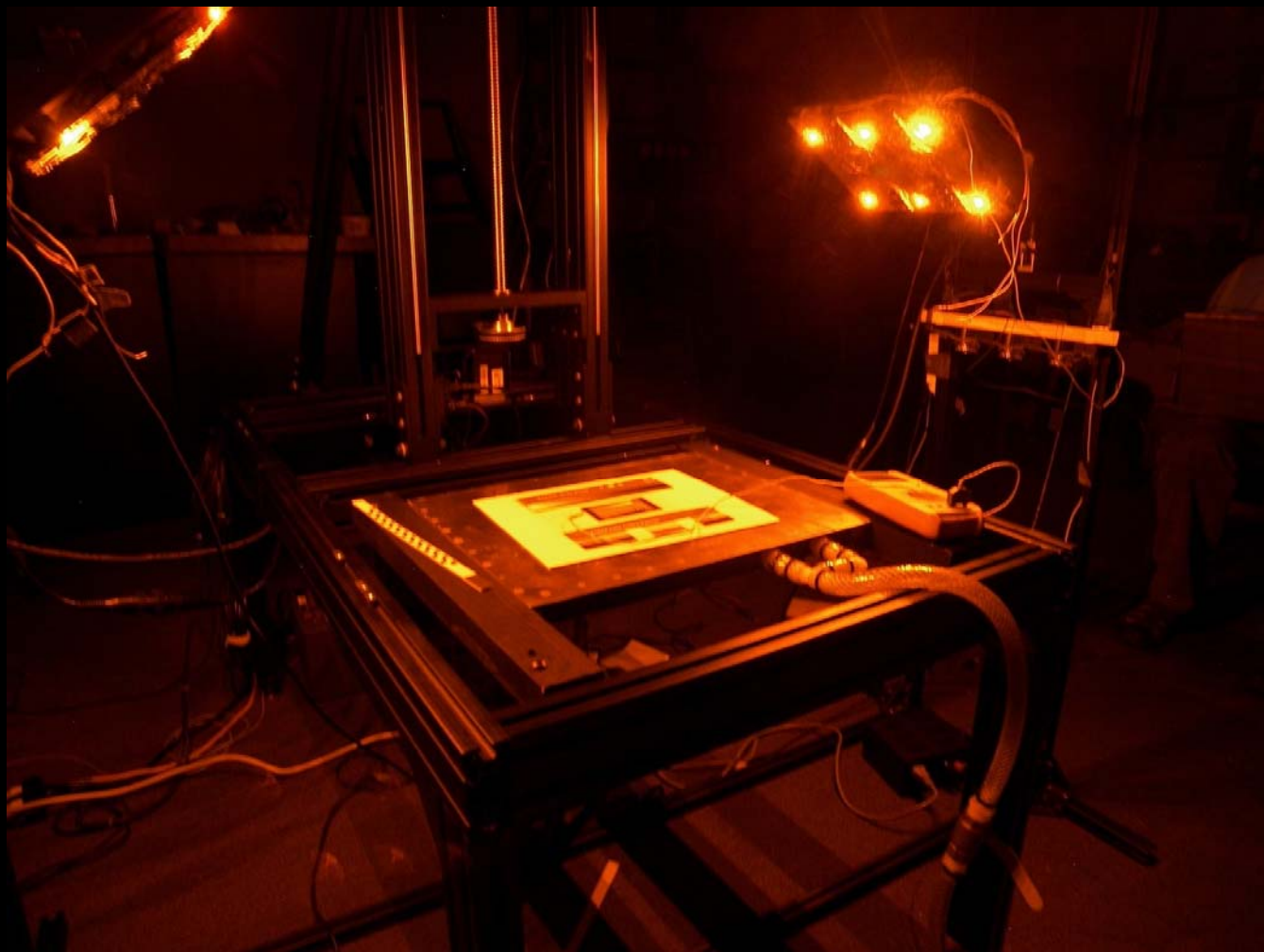


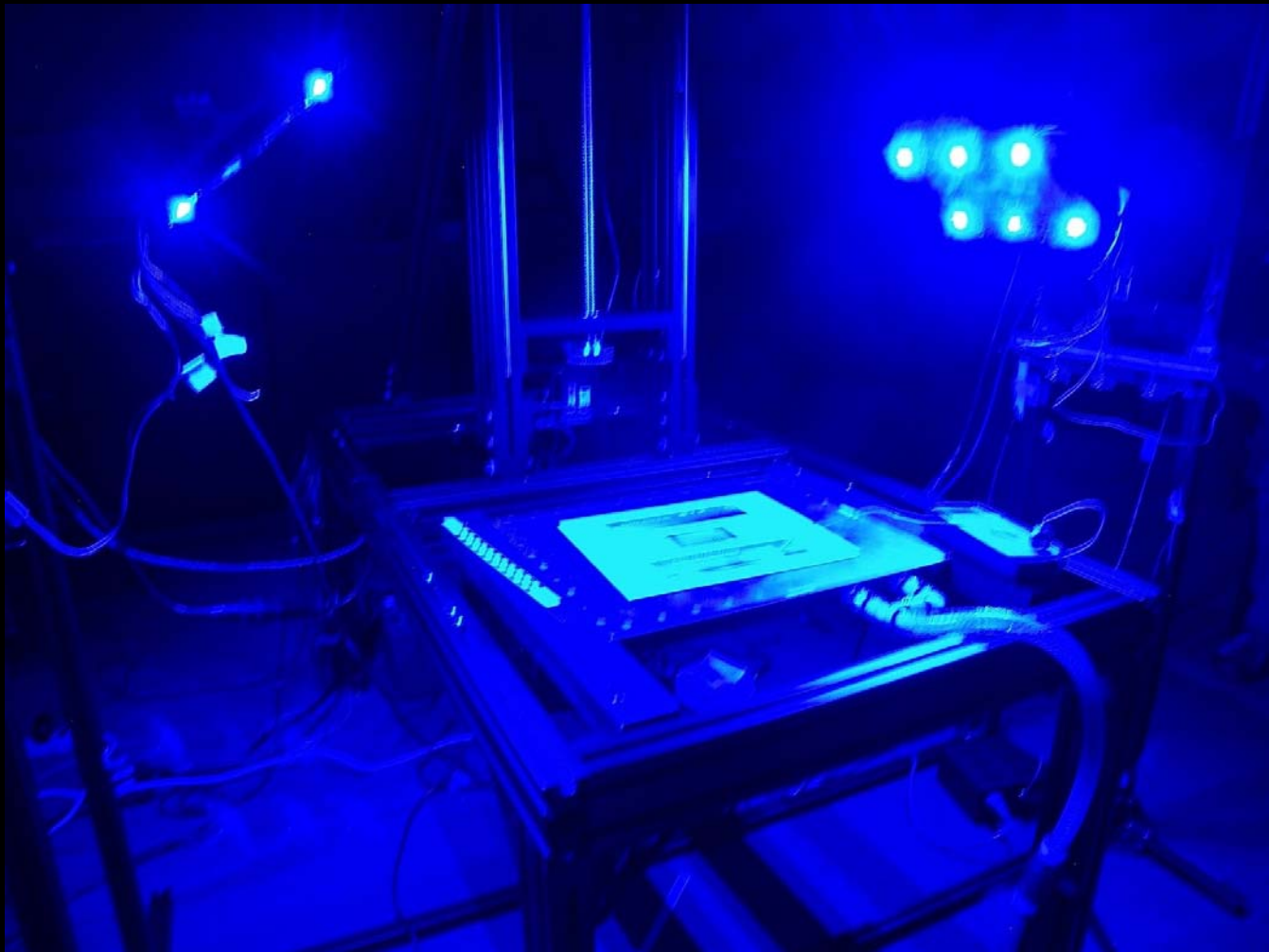
...τουτο
εκκλησι
δραστη
δ' αλλη
ταυτα
επι κω.
παρα
πορο
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Κ

...τουτο
εκκλησι
δραστη
δ' αλλη
ταυτα
επι κω.
παρα
πορο
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πρω
λαγκ
εμου
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λα
...
Κ

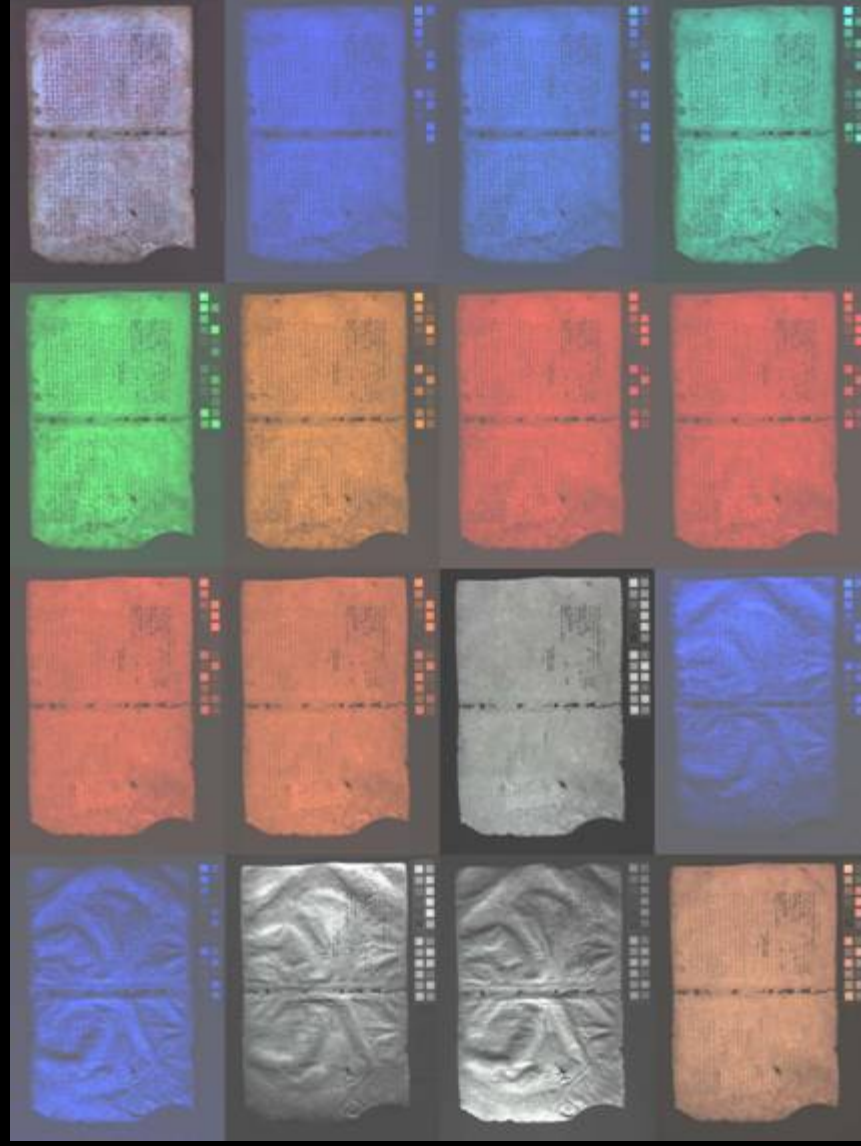


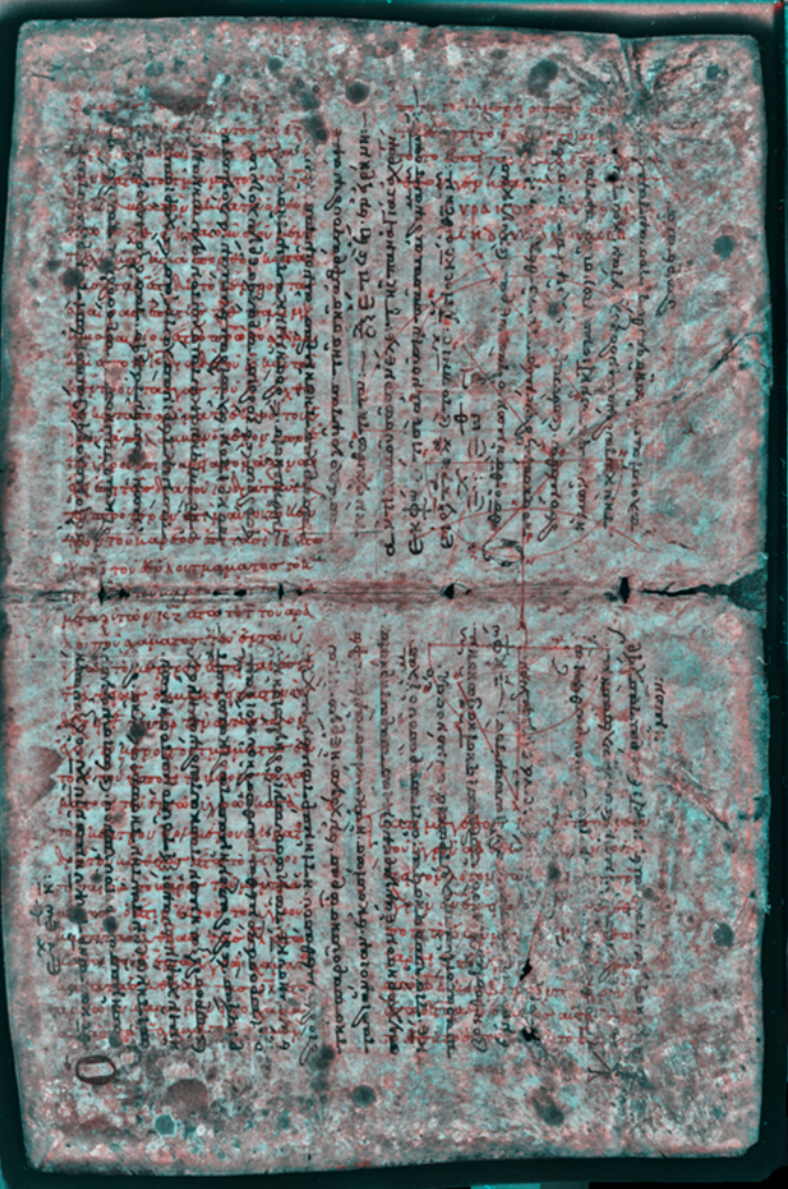
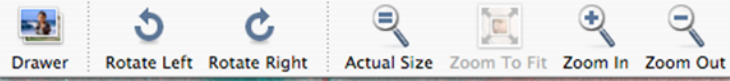


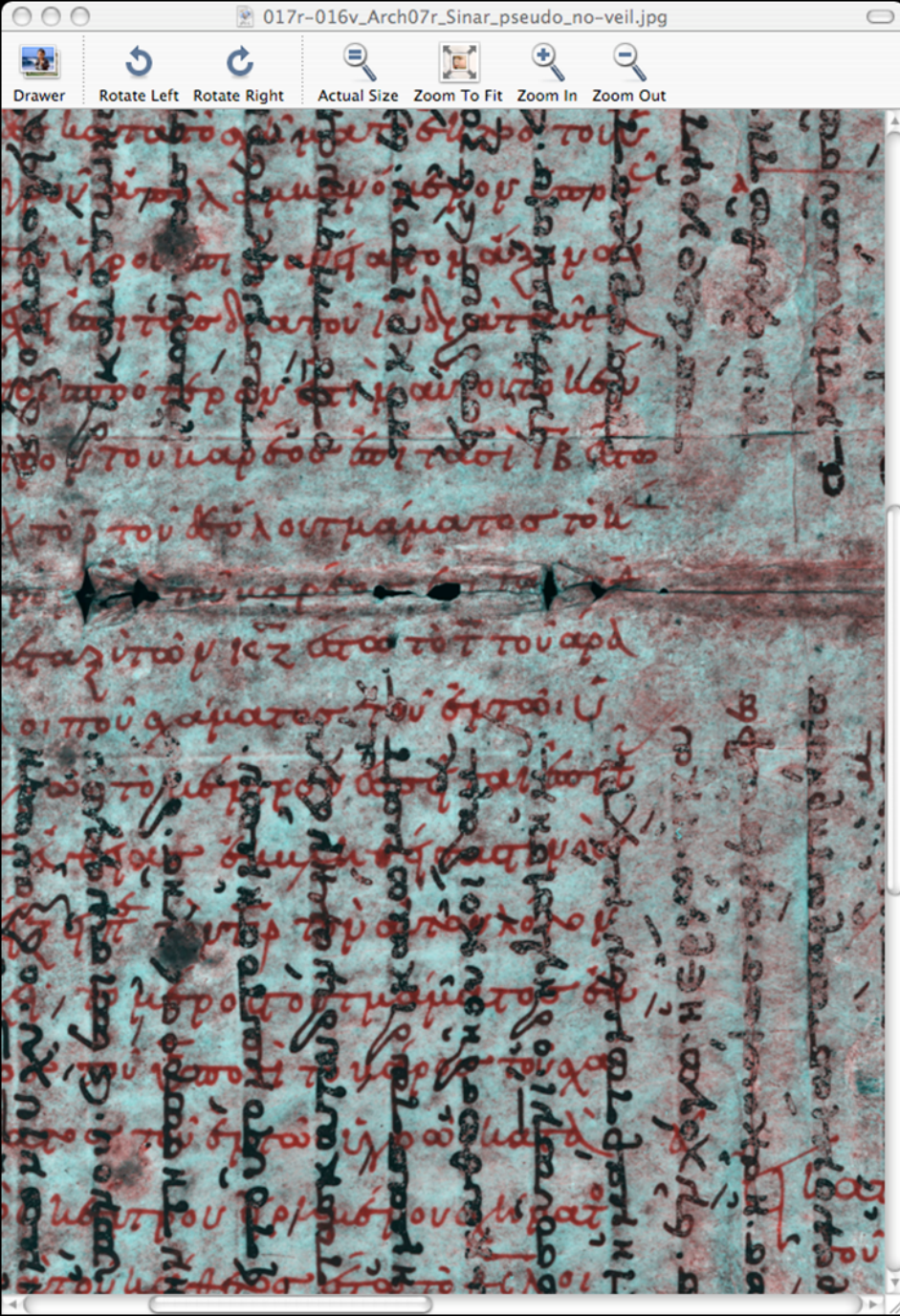




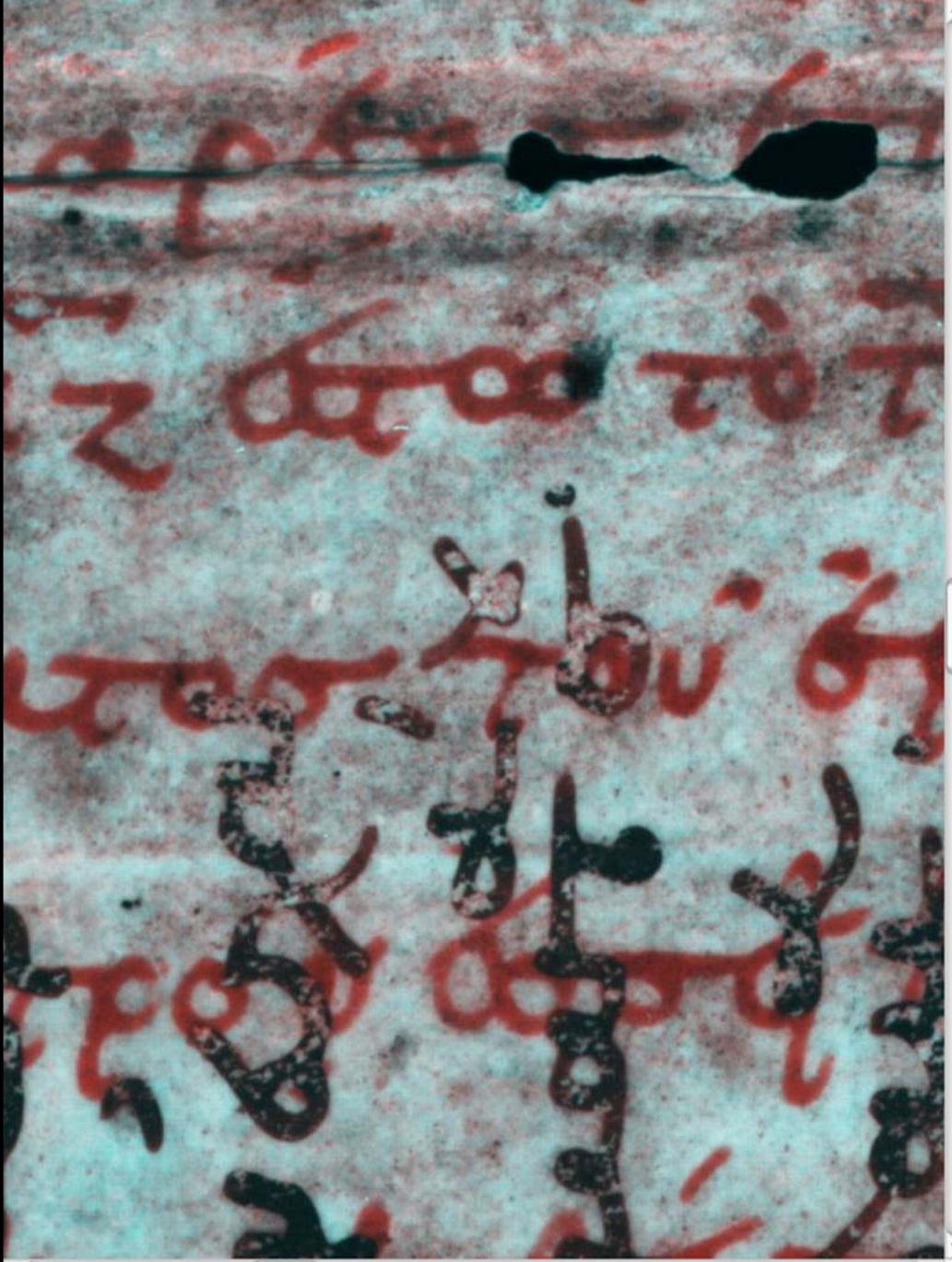








ἡ τὸ σφραγισμὸν ἐπιγράφει
 ἀπὸ τῆρ ὄντι μὲν οὐκ ἔστι
 τοῦ μαρτύρου τῶν τῶν τῶν
 οὐ τοῦ δόλου μαρτυρίας τοῦ
 τοῦ μαρτύρου τῶν τῶν τῶν
 ἀντιπρόσωπον ἐστὶν τῶν ἀφ' ἑ
 ποῦ μαρτυρίας τοῦ δόλου ὅτι
 τὸ μὲν ἄλλο ἀπὸ τῶν τῶν τῶν
 τῶν τῶν τῶν τῶν τῶν τῶν
 ἐπὶ τῶν τῶν τῶν τῶν τῶν
 τῶν τῶν τῶν τῶν τῶν τῶν
 τῶν τῶν τῶν τῶν τῶν τῶν
 τῶν τῶν τῶν τῶν τῶν τῶν





Drawer



Rotate Left



Rotate Right



Actual Size



Zoom To Fit

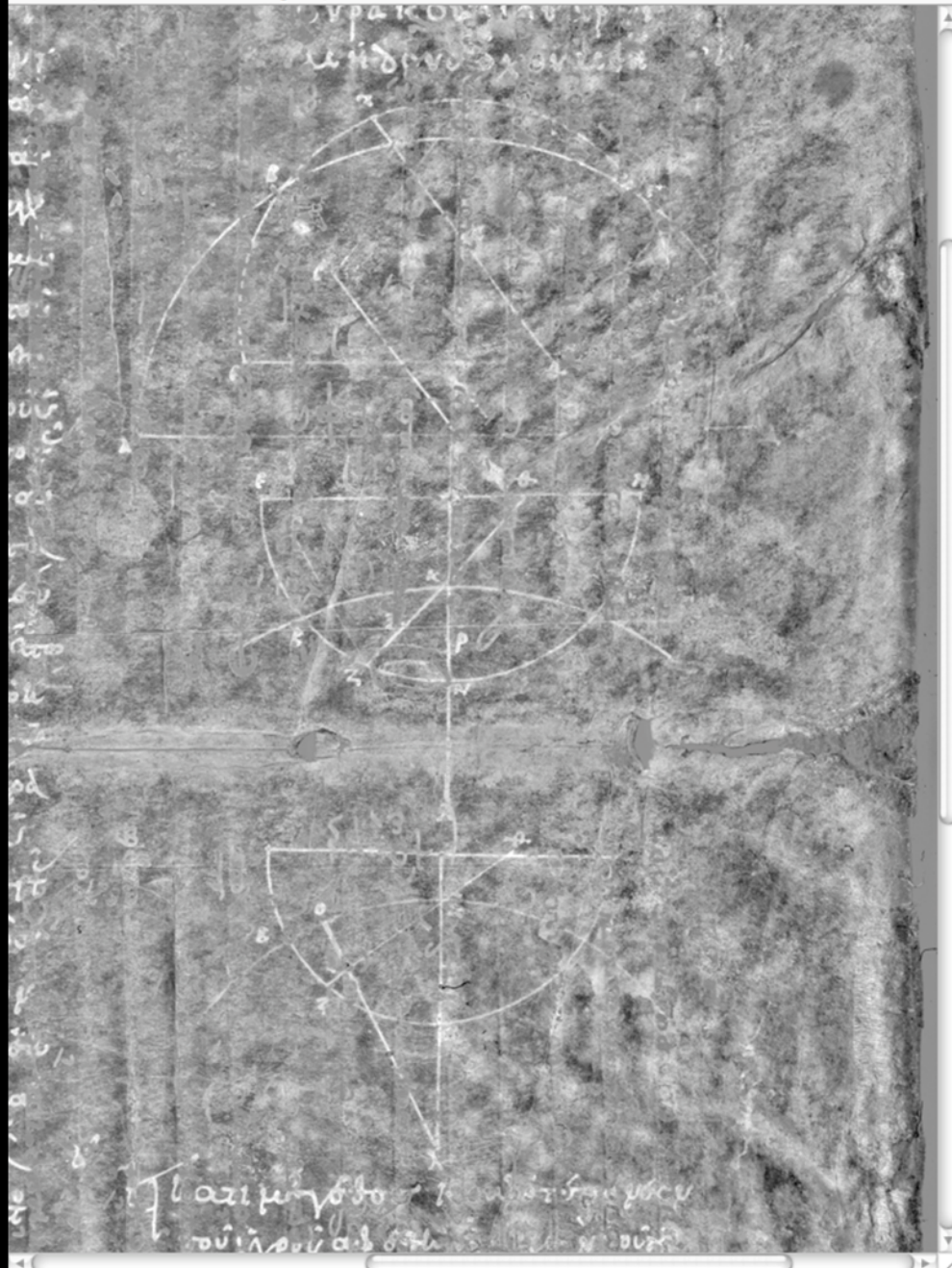
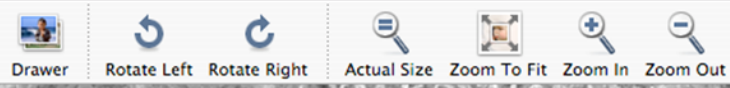


Zoom In



Zoom Out

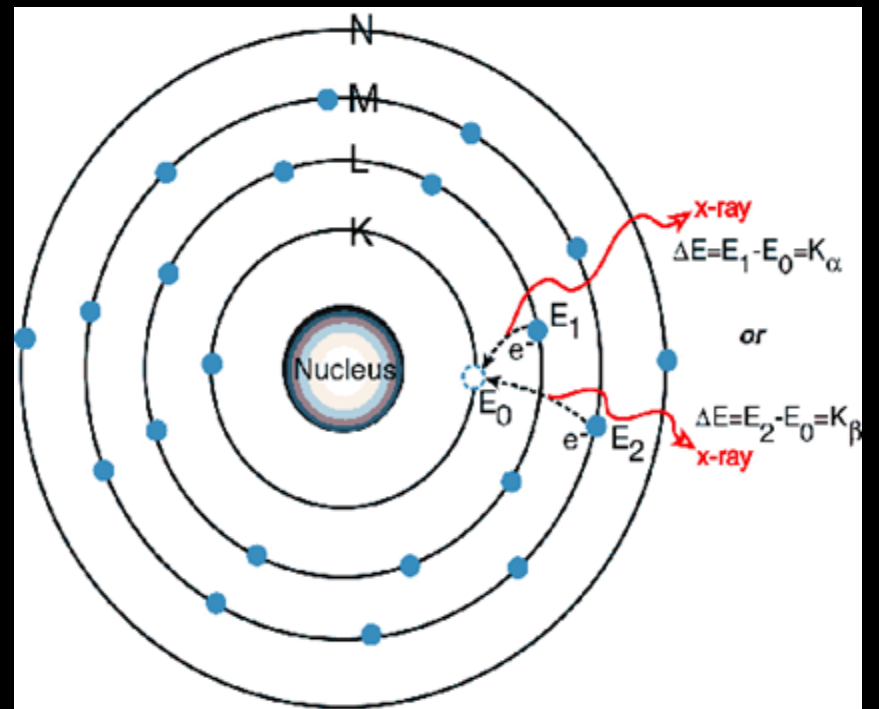
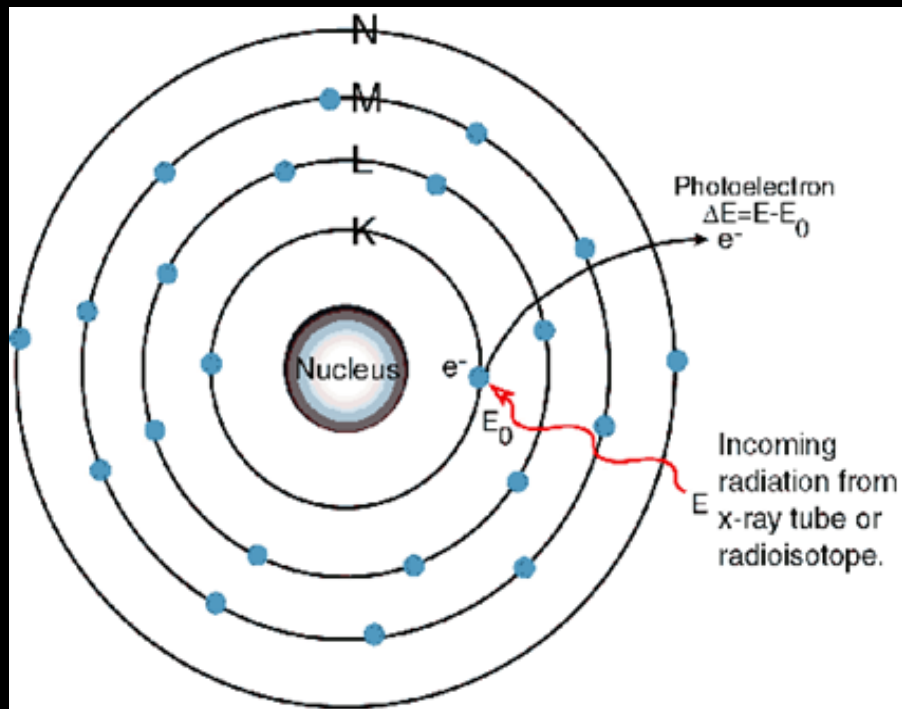






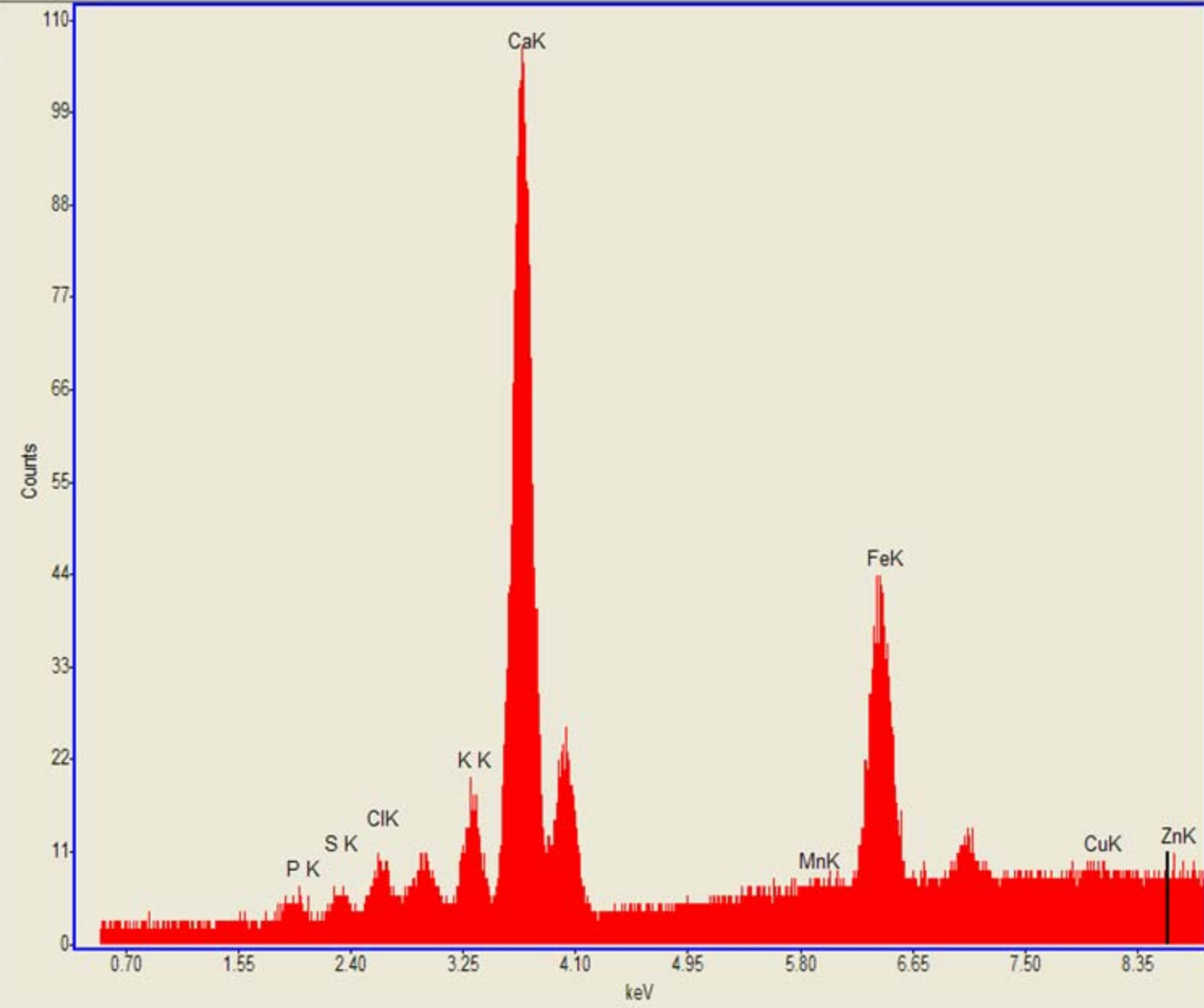


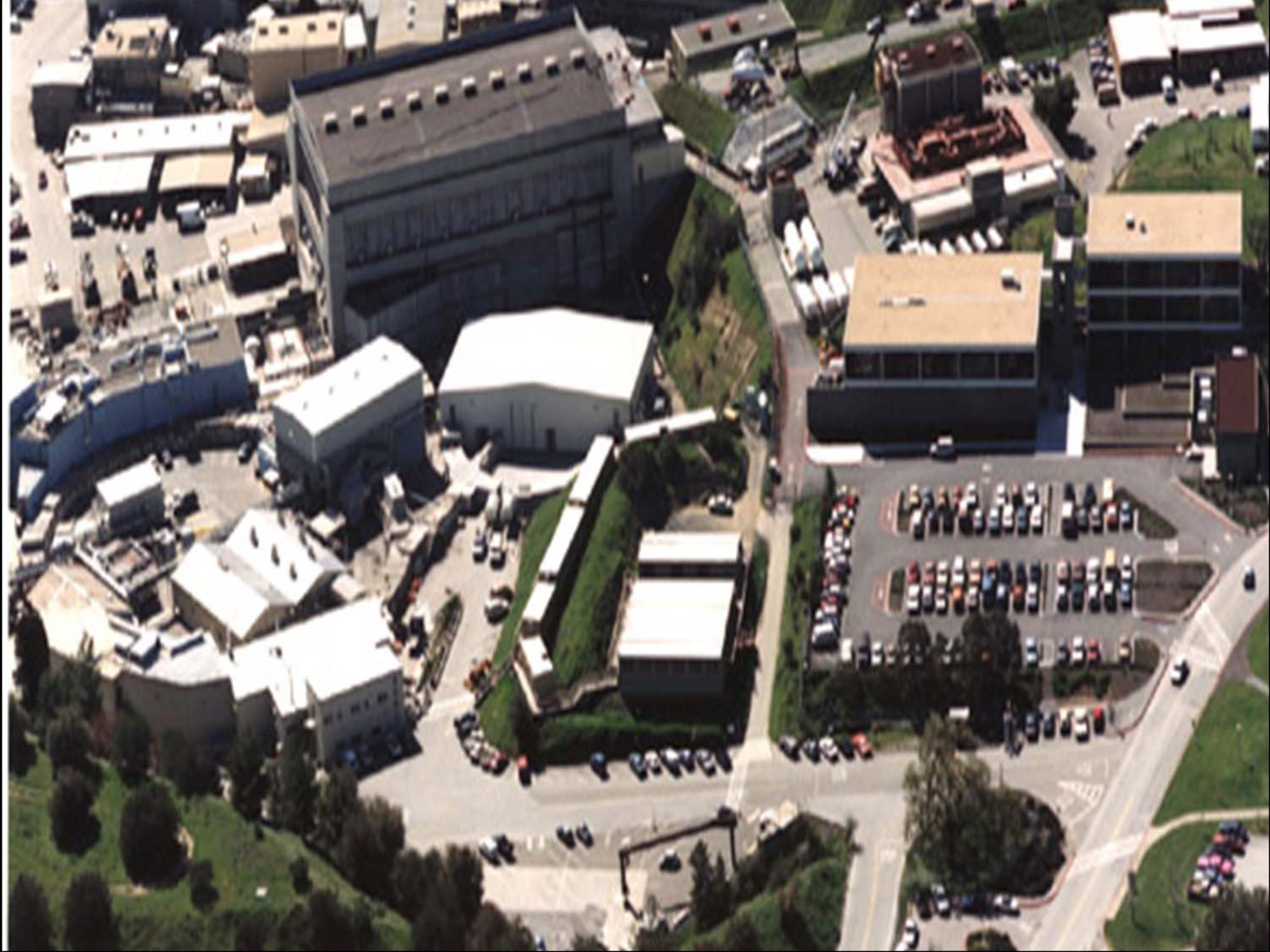


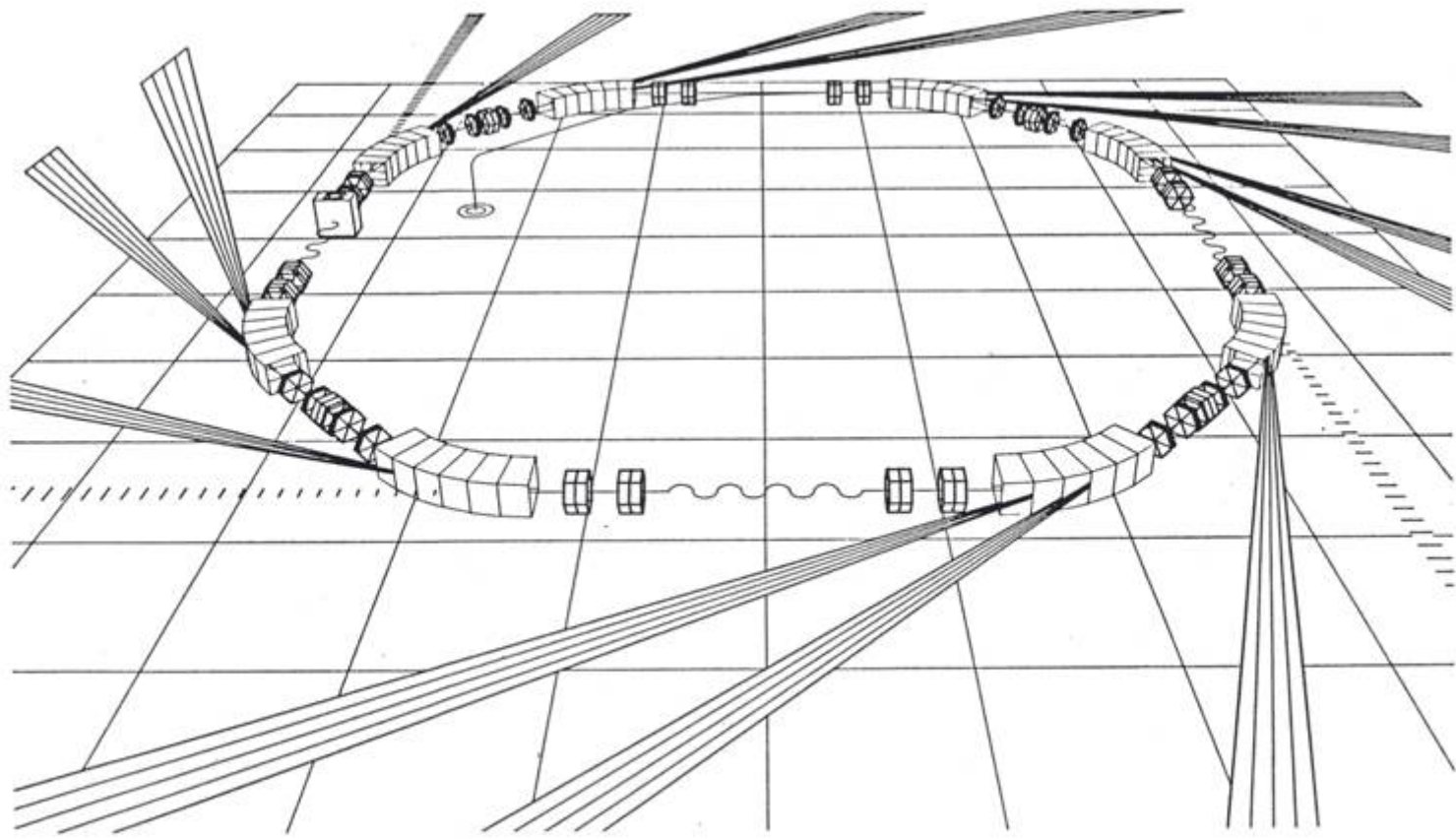




C:\Documents and Settings\wnoel\WALTER
scan two1 spectrum for cube 04/19/2005
scan two2 spectrum for cube 04/19/2005
scan two3 spectrum for cube 04/19/2005





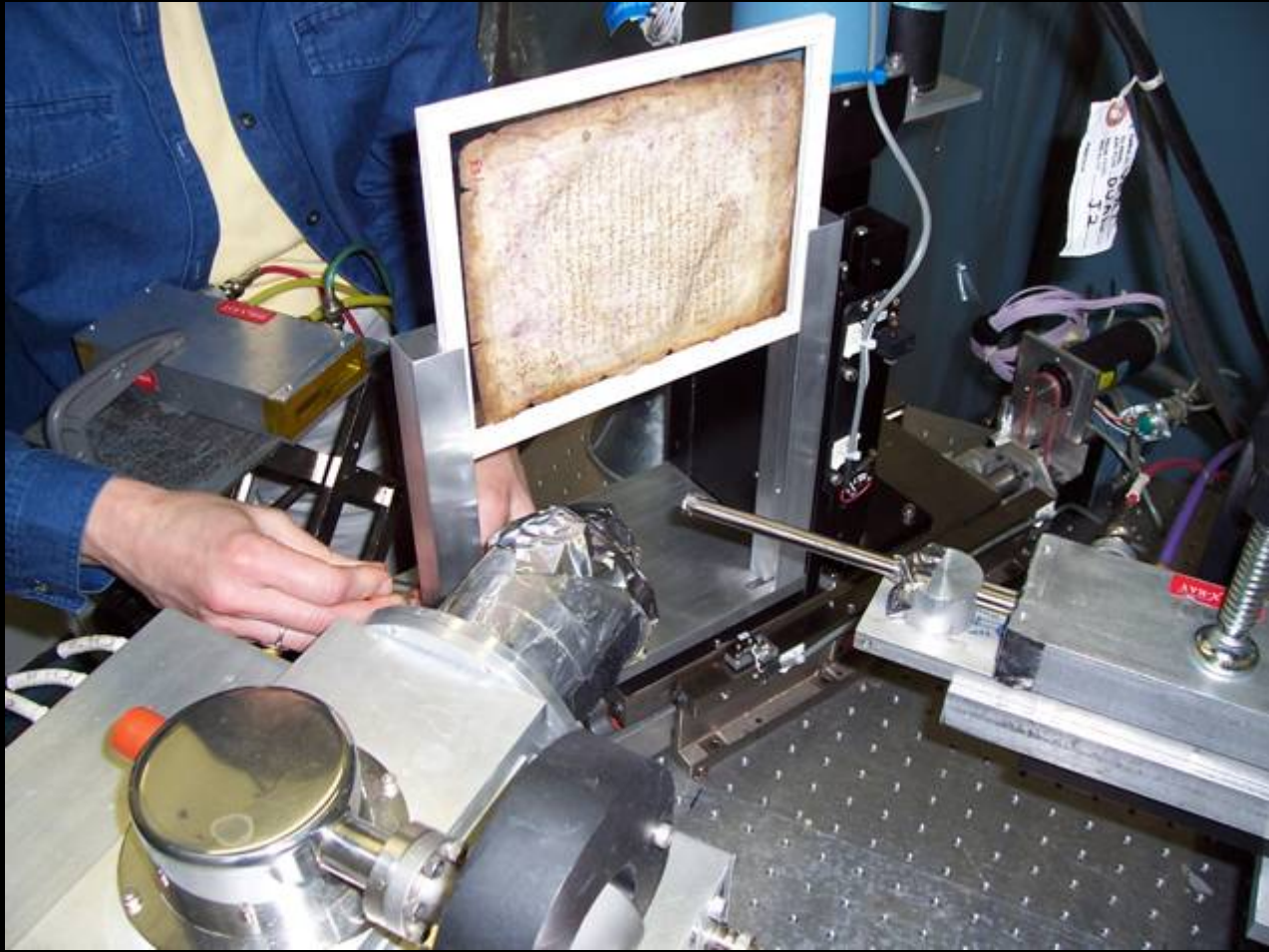


NOT VALID IN KANSAS

as per order of the Board of
Education, November 8, 2005

Use of this device or substance
may require, imply, and/or endorse
the existence of one or more of the
following: chemistry; evolution;
electromagnetism; gravity;
mathematics; thermodynamics;
education.

KICKERS









Q TO

A Q:
IS TEAR
POSSIBLY
ORIGINAL?

π λ σ α τ ω π λ η θ ε τ ο ι σ υ β ρ ο μ ?

? β ρ τ ω ι π ο ρ ι σ μ α ι π τ ρ ι

υ ο ρ ο ι σ η α ι α ι β θ ? ? ?

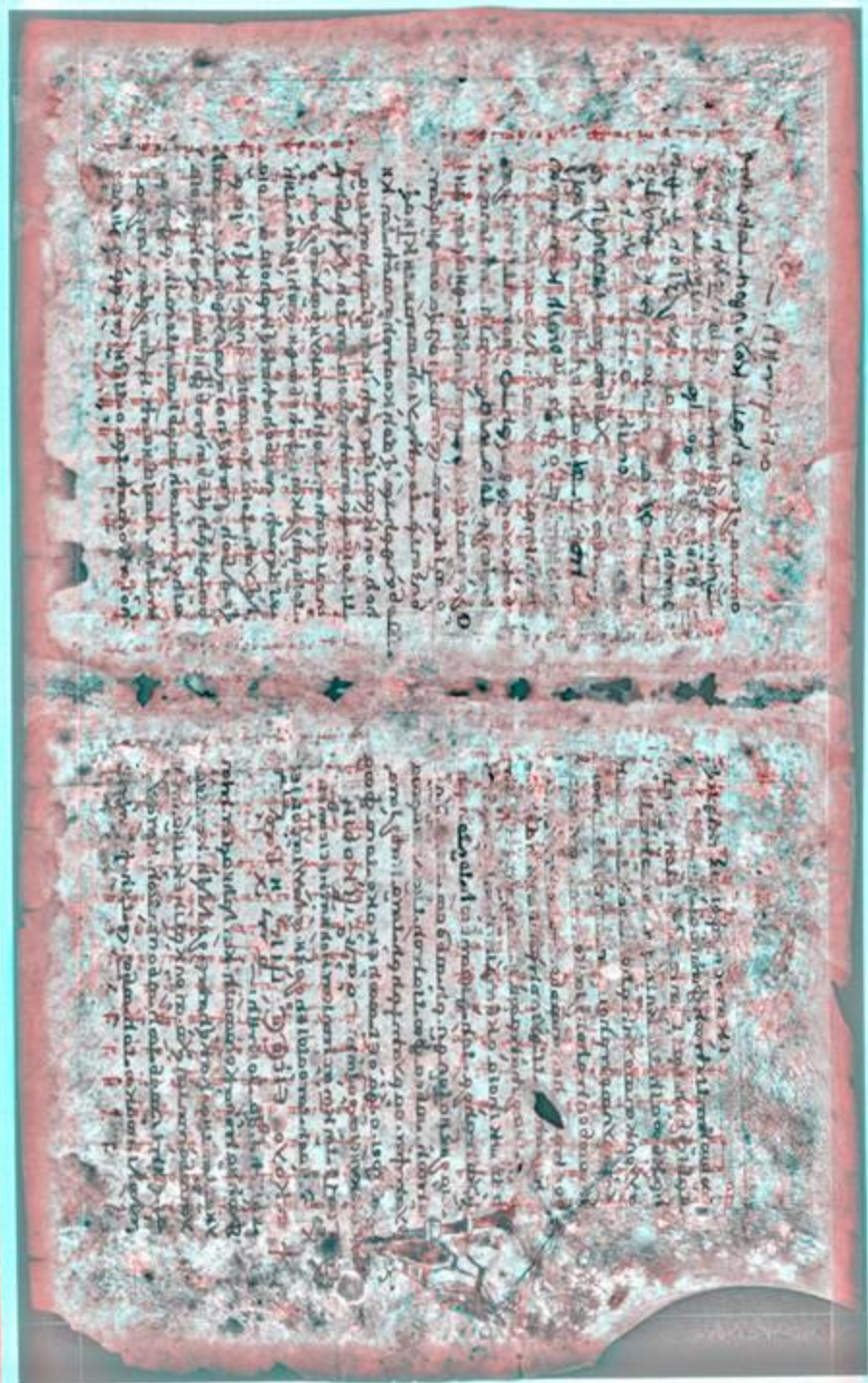
GUESS

α π ο μ α ρ μ α ρ ο μ β ρ α ι α π ο τ ω γ

Handwritten text in a cursive script, likely a historical document or manuscript, showing a line of text on aged, yellowish paper.

Handwritten text in a cursive script, likely a historical document or manuscript, showing a line of text on aged, yellowish paper. The text is written in red ink and is partially obscured by a blue and green patterned background.

- Reviel Netz
(netz@stanford.edu) Fri Apr 13
09:49:13 2001
- In a couple of months the first intellectual fruits of our labour will be published, together with a complete transcription of one crucial side of one page, most of which is unknown to modern science.
- I send you the final lines of the article, as it stands in draft form. It is understated. It reads as follows:
- To sum up, then, the new reading from Archimedes' Indivisibles Proof should call for some reconsideration of the position of Archimedes in some key areas of the history of mathematics, especially the two related conceptual fields of the calculus, and of infinity.



A New Reading of *Method* Proposition 14 : Preliminary Evidence from the Archimedes Palimpsest (Part 1)

Reviel Netz

Stanford University

Ken Saito

Osaka Prefecture University

Natalie Tchernetska

Trinity College, Cambridge

To the memory of Wilbur Knorr (1945–1997)

I Introduction¹

The Archimedes Palimpsest, referred to in Heiberg [1910–1915] as ‘Codex C’, had a complicated history that is understood only in part (see e.g. Netz [2000]). Originally a tenth century manuscript containing several works by Archimedes, it was palimpsested as a Greek prayer book in the twelfth or thirteenth century, and then remained unknown to the scholarly world until it was rediscovered in Istanbul at

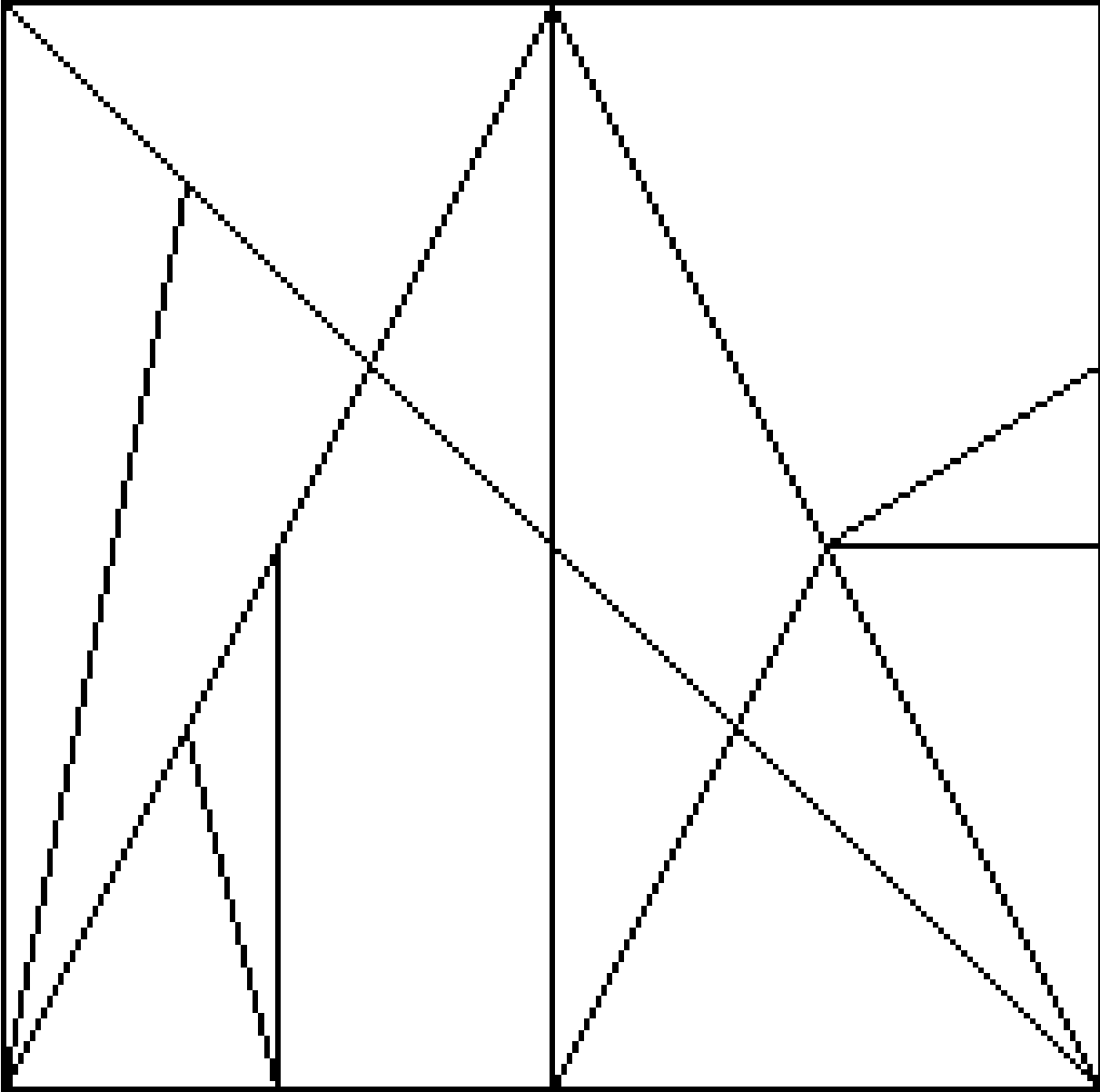
JUNE 17, 2001

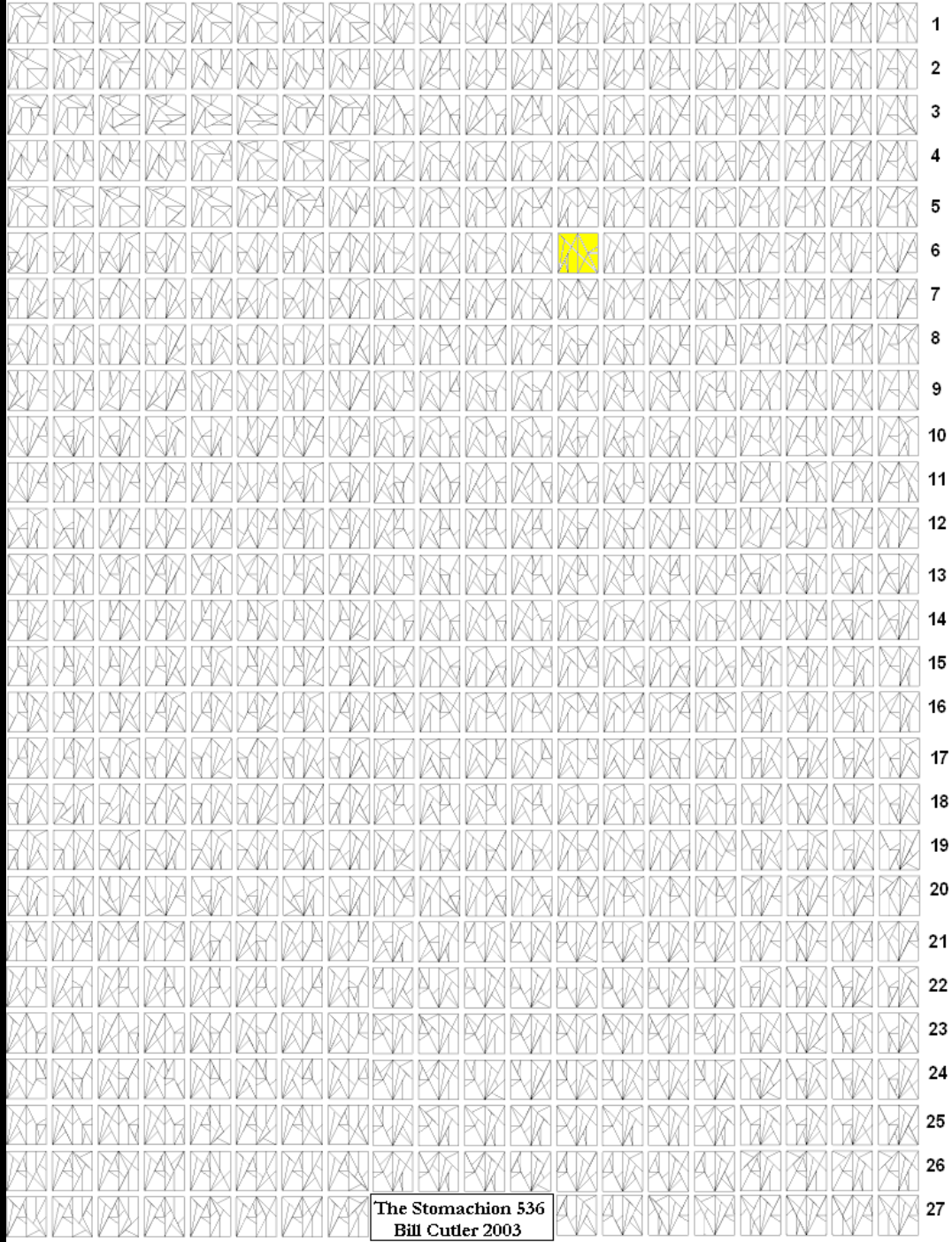
THE SUNDAY TIMES magazine



THE EUREKA PAGE

EXCLUSIVE: It's just a few lines of scrawled Greek text, but new technology has identified the hand of Archimedes — and the results are rewriting history





The Stomachion 536
Bill Cutler 2003

A B C D E F G H J K L M N P Q R S T U V

ter Fireproofing Tests
Wider Safety Problem



EUROPEAN
CAN'T REA

Continued on Page 38

during lunch.

Twenty-one unions are backing

In Archimedes' Puzzle, a New Eureka Moment



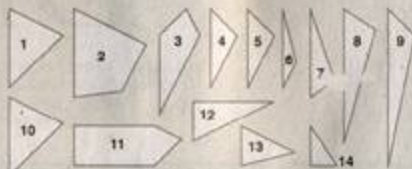
Rochester Institute of Technology, Johns Hopkins University/The Archimedes Palimpsest

A computer-enhanced image of a 1,000-year-old manuscript reveals the faint traces of a copy of Archimedes' Stomachion treatise. It had been overwritten by monks in the 13th century.

14 Pieces, 17,152 Solutions

Archimedes asked how many ways these pieces can be put together to make a square. It took four mathematicians six weeks to find the answer by counting the possibilities.

Three ways to make a square appear on Page 32.



The New York Times

By GINA KOLATA

Twenty-two hundred years ago, the great Greek mathematician Archimedes wrote a treatise called the Stomachion. Unlike his other writings, it soon fell into obscurity. Little of it survived, and no one knew what to make of it.

But now a historian of mathematics at Stanford, sifting through ancient parchment overwritten by monks and nearly ruined by mold, appears to have solved the mystery of what the treatise was about. In the process, he has opened a surprising new window on the work of the genius best remembered (perhaps apocryphally) for his cry of "Eureka!" when he discovered a clever way to determine whether a king's crown was pure gold.

The Stomachion, concludes the historian, Dr. Reviel Netz, was far ahead of its time: a treatise on combinatorics, a field that did not come into its own until the rise of computer science.

The goal of combinatorics is to determine how many ways a given problem can be solved. And finding the number of ways that the problem posed in the Stomachion (pronounced sto-MOCK-yon) can be solved is so difficult that when Dr. Netz asked a team of four combinatorics experts to do it, it took them six weeks.

While Dr. Netz acknowledges that his findings cannot be proved with absolute certainty, he has

Continued on Page 32

INSIDE

A Rashed Neighborhood

A Gas Drilling Rush

Rowland Asked to Stop Acids



"N. Tchernetska"

<nt208@hermes.cam.ac.uk>
10/19/02

Dear Will,

In the course of further exploration of the non Archimedes folios, I recently deciphered the text of a Greek orator, unknown otherwise. I could identify parts of lost speeches by Hypereides: ff. 135-138 contain a fragment of his lawsuit speech 'Against Timandra'; ff. 136-137 a fragment of a political speech, possibly 'Against Diondas'; ff. 174-175 possibly a fragment of the same political speech.

Kind regards,

Natalie



- **Sent:** Saturday, June 11, 2005
2:24 PM
- Dear Will,
- Excellent news. The hard-drive and photos came safely this week. A first glance suggests that there is no more Hyperides, but several leaves of the philosophical text, on one of which I read the name Aristotle clearly enough.
- All the best,
- Nigel



Fragment of ancient Greek text on yellowish parchment. The text is written in a cursive hand and includes the following characters from left to right: $\chi\eta$, $\epsilon\alpha\upsilon$, $\tau\mu\epsilon$, $\epsilon\sigma\omega$, $\alpha\iota\chi$, $\alpha\sigma\tau$, and $\epsilon\tau\mu$.

Fragment of ancient Greek text on reddish parchment. The text is written in a cursive hand and includes the following characters from left to right: $\tau\epsilon\alpha\sigma\chi\eta$, $\kappa\iota\omega\epsilon\alpha$, $\mu\epsilon\tau\pi\alpha\upsilon$, $\sigma\beta\alpha\tau\tau\mu\epsilon$, $\epsilon\tau\mu\epsilon\sigma\omega$, $\alpha\iota\chi$, $\alpha\sigma\tau$, $\epsilon\tau\mu$, $\mu\alpha\mu\epsilon\alpha\sigma$, and $\alpha\sigma\tau$. A green oval highlights the characters $\tau\epsilon\alpha\sigma\chi\eta$ and $\kappa\iota\omega\epsilon\alpha$.

2019020818

ΠΡΟΒΛΗΤΗ

ΚΑΙ ΤΩΝ

ΑΝΤΙΣΤΑΝΤΩΝ

ΕΝ ΤΗ

ΕΚΚΛΗΣΙΑ

ΚΑΙ ΤΩΝ

ΑΝΤΙΣΤΑΝΤΩΝ

ΑΝΤΙΣΤΑΝΤΩΝ



[Archimedes](#)[The Palimpsest](#)[Conservation](#)[Palimpsest Imaging](#)[Scholarship](#)[Additional Resources](#)[Program Management](#)[Program Documentation](#)[Image Bank](#)[Data Archives](#)[Archimedes forum](#)

The Story Of The Amazing Discovery Of Archimedes' Lost Works

by Reviel Netz and William Noel

[CLICK HERE TO LEARN MORE](#)

ARCHIMEDES

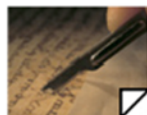
THE PALIMPSEST



Archimedes



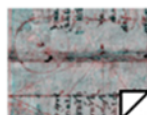
Palimpsest



Conservation



Imaging



Scholarship



Eureka!

WELCOME. The subject of this website is a manuscript of unique importance to the history of science, the Archimedes Palimpsest. This tenth century manuscript is the unique source for two of Archimedes Treatises, *The Method* and *Stomachion*, and it is the unique source for the Greek text of *On Floating Bodies*. Discovered in 1906 by J.L. Heiberg, it plays a prominent role in his 1910-15 edition of the works of Archimedes, upon which all subsequent work on Archimedes has been based. The manuscript was in private hands throughout much of the twentieth century, and was sold at auction to a private collector on the 29th October 1998. The owner deposited the manuscript at The Walters Art Museum in Baltimore, Maryland, a few months later. Since that date the manuscript has been the subject of conservation, imaging and scholarship. The Archimedes Palimpsest project, as it is called, has generated a great deal of public curiosity, as well as the interest of scholars throughout the world.

This website attempts to give information on the Palimpsest, and on the progress of the project in general. It is designed to be of interest to a wide range of audiences, and many people have contributed to it. I do hope that you find answers to some of the questions you may have concerning the manuscript and the progress of the project on this site.

William Noel
Curator of Manuscripts
The Walters Art Museum

All images of the palimpsest are the copyright of the owner of the Archimedes Palimpsest, unless explicitly stated otherwise. All rights reserved.

Site design by **Bark @ The Moon Studio**

What we have on 137v-136r is in fact the verso of a folium; the preceding passage of the Diondas speech is on f. 136v-137r (recto, as it were).

The three last lines (30-32) read approximately as follows:



Posts: 3

hmwn prothymoteros gegonws ` ei de tw(v) peri t(hn) // makhhn w andres athenaioi esfalhte ouden // maston` alla khrhsei ge proelomenoi

The beginning of -maston does not seem to be thau, but we need something similar in sense; after proelomenoi letters are illegible.

Then the sentence continues on the beginning of 137v-136r.

« Last Edit: Feb 20th, 2006, 5:05am by ntchernetska »

IP Logged

dwhitehead

members
YaBB Newbie
★

Re: f.136v-137r

« Reply #1 on: Feb 21st, 2006, 12:35am »

Quote Modify

For the -maston word which is not thaumaston: try adokimaston?

I love YaBB 1G - SP1!

DW



Posts: 7

IP Logged

dwhitehead

members
YaBB Newbie
★

Re: f.136v-137r

« Reply #2 on: Feb 22nd, 2006, 1:40am »

Quote Modify

khrehsei: perhaps, rather, thrhsei?

I love YaBB 1G - SP1!

DW



Posts: 7

IP Logged

Chris Carey

members
YaBB Newbie
★

Re: f.136v-137r

« Reply #3 on: Feb 24th, 2006, 3:00pm »

Quote Modify

Comments from Nigel (passed on by CC):



Posts: 3

136v-137r lines 30-32

In line 30 in wonder if TA rather than TWN should be read

In line 31 DIKASTAI rather than ATHHNAIOI. At the end of the line it is very difficult, but I think there may be a large upsilon as the last letter, which would make THAUMASTON possible (it seems very suitable, and I am at a loss to think of any other word).

In line 32 I think we should read KhrHSTA GE. (A part of the verb KhrRH necessitates an accusative, so that the participle would have to be emended). After the participle I am in difficulty. It looks as if the following letter is a kappa. The last three letters of the line appear to be EIN with circumflex. I suppose we are looking for something that means "let us resolve" or "we resolved".

Best wishes,

Nigel

30 et n ainqueia qewreita e...e.ai a

78v-75r flesh

1 e...os-[meqodos?] allou de allhn ekkrinontos 2-estin

2[??protasin??] n kai allon ge 3

3[nesq]ai epifanesteron ..

4de to legomenon dia paradeigmatos epi toukosmou

5ka si tines to genhton kai fqarton

6 kosmo. d...kathgoroumenwi ... [aph] 7thart[on tou kosmou duein kathgoroumenwn to [a]

7[ph]thart[on kai a]genhton. ei gar wsper tou kosmou 8..ta....ai-

8protaseis kai zhthseis gegonasin wn mia men 9-tw(i)-

9alhqs ..tw(i) allous allhi pros thn 10-palin-[a]i pasai alh /how about "proisthnai"?

10qeis] kata panta [ana?]palin apasai pseudeis ei gar

11genhtos kai phthartos ws tois apo zhnwnos

12 edokei h oute genhtos oute phthartos ws twi aristo

13telei edoxen kai platwni ws tines oiontai h genh

14tos men apthartos de ws enioi twn Puthagoreiwn

15kai Platwna de tines outw pheresthai nomizousin

16h agenhtos esti [phthartos] de kai gar ei mhdeis ...

17 allh(i?) [t]ines allh ge protasis estin [kai?]

18einai ta tessara.....tas pasas [tessarwn?] to d auto sumbainei

19 kai duoin enos kathgorhthentos to-gar-en.ai-tettares [gar?]

20 tws-pres...es-kai ou?]tws tas protaseis tou gar ke

21 [nou] [dokounta?] einai esterhmenous wn ..os

22...ontos to? 22..ontos to entos tou kosmou ws duo

23 [tou?] kenou enos kata duein feromenon tes

24sa>ras genesqai kata diaresin protaseis h

25ektos (kai) entos tou kosmou einai kenon ws dhmo

26kritwi te kai epikourw hresken h oute entos

27oute ektos ws aristotelei kai platwni h ektos men

28entos de ou <kaqaper tois apo Zhnwnos h entos men ektos de ou> * kaqaper stratwni edoxens..

[lacuna postulavimus ubi Stoicorum doctrina adhibita est

29..... meqodos tou pros enaecrh

30.....ei. diaresis

27v. col. 1

1ταν> Β συναμφοτερου τασΑΒ ΒΕ
2κ<αι> Δ συναμφοτερου τασ ΓΒ ΒΔ
3εστι¹¹ δε και ωσα Δ<Επ>ρο<α>¹² ΕΒ ουτως
4α τ>ε Α<Γ> προσ<Γ>Β επει και κατ<α> συν
5θεσιν και α Γ τασ ΓΔ προσ¹³ <ταν Γ
6τας ΔΒ <(και)> α Β τασ ΔΕ προσ¹⁴ ταν <Β
7τας ΕΒ ωστε και α <συ>κειμενα
8εκ τε τασ ΑΓ (και) Γ τασ ΓΔ και Β τ<α>σ
9ΔΕ προσ¹⁵ ταν συκειμεναν εισ?¹⁶ τε ταΣ
10ΓΒ και Γ τασ ΒΔ και Β τασ<Ε>Β α
11νομοιως συν παλιγ των Λαγων τε
12ταγ μενων τουτεστιν εν τεταραγ
13μενα αναλαβια διισου το<ν> αυτον
14εξει Λαγον α ΕΟ πρ(οσ)¹⁷ Β ον α ΑΓ
15μετα τασ Γ τασ ΓΔ¹⁸ και Β τασ δε¹⁹
16προσ²⁰ διπλασιαν συναμφοτερου
17τας ΑΒ ΒΕ μετα τασ Δ συναμφο
18τερου τασ ΓΒ ΒΔ ωλα συν α ΟΒ
19προσ²¹ ΒΕ τον αυτον εχει Λαγον
20ον α ισα τα τε Γ τασ ΑΒ μετα ταΣ
21Σ τασ ΓΒ και τα Γ τασ <Β>Δ προσ²²

27v. col. 2

1ωστε και α Β προσ τ>ον Β τον αυ
2τον εξει Λαγον του>τεστιν ωσ α ΕΑ
3προσ²³ <ΑΔ ουτ>ω<σα> Β<α>υναμφοτε
4ρου τασ <ΕΒΑ μετα> τασ Δ <συναμ
5φοτερου τασ<Γ>ΒΔ προσ²⁴ ταν Β
6συναμφοτερου της²⁵ Α<Β>Δ μετα
7τας Δ τασ ΓΒ ωστε και ωσα
8ΕΑ προσ²⁶ τα τρια πεμπα τασ
9ΑΔ ουτως α συκειμενα εκ τε
10τας Β συναμφοτερου τασ ΑΒ<Ε
11και Δ συναμφοτερου τασ ΓΒΔ
12προσ²⁷ τα τρια πεμπα τασ συ
13κειμενας εκ τε τασ Β συναμφο
14τερου τασ ΑΒΔ και Δ τασ ΓΒ
15αλλ ωσα ΕΑ προσ τα τρια πεμ
16πα τασ ΑΔ ουτως εσιν α ΕΒ
17προσ²⁸ ΖΗ και ωσα α ΕΒ (προσ)²⁹
18ΖΗ και ωσα α ΕΒ συναμ
19φοτερου τασ ΔΒΓ προσ³⁰ τα τρι
20α πεμπα τασ συκειμενας







```
<w TEIform="w" part="F">χρι</w> του ἄξονος, πάντα λόγον <expan TEIform="expan"
abbr="εχο">εχον</expan>
</seg>
<seg TEIform="seg" n="5" part="N" type="line">πρὸς τὸ ὑγρὸν τῷ βάρει, ἀφεθὲν εἰς</seg>
<seg TEIform="seg" n="6" part="N" type="line">τὸ ὑγρὸν οὕτως, ὡ<supplied
TEIform="supplied" reason="lost">σ</supplied>τε τὴν βάσιν</seg>
<seg TEIform="seg" n="7" part="N" type="line">αὐτοῦ μὴ ἀπιτσθαῖ τοῦ ὑγροῦ, <expan
TEIform="expan" abbr="τεθε">τεθὲν</expan>
</seg>
<seg TEIform="seg" n="8" part="N" type="line">κεκλιμένον οὐ μενεῖ <w TEIform="w"
n="κεκλιμένον" part="I">κεκλιμέ</w>
</seg>
<seg TEIform="seg" n="9" part="N" type="line">
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abbr="ορθ">ὀρθόν</expan>.</seg>
<seg TEIform="seg" n="10" part="N" type="line">ὀρθόν δὲ λέγω καθεστηκέναι τὸ</seg>
<seg TEIform="seg" n="11" part="N" type="line">τοιοῦτο τμᾶμα, ὅπῳταν τὸ <unclear
TEIform="unclear">
<w TEIform="w" n="ἀποτεμμηκός" part="I">ἀ</w>
</unclear>
<w TEIform="w" part="M">πο</w>
</seg>
<seg TEIform="seg" n="12" part="N" type="line">
<w TEIform="w" part="F">τεμμηκός</w> αὐτὸ ἐπιπέδον ἦι <expan TEIform="expan"
abbr="π">παρά</expan>
</seg>
<seg TEIform="seg" n="13" part="N" type="line">τὴν ἐπιφάνειαν ἦι τοῦ ὑγροῦ.</seg>
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</seg>
<seg TEIform="seg" n="15" part="N" type="line">
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>ι</supplied>ον εἶρηται, καὶ κείσθω</seg>
<seg TEIform="seg" n="16" part="N" type="line">κεκλιμένον. δεικτέον ὅτι οὐ <w
TEIform="w" n="μενεῖ" part="I">με</w>
</seg>
<seg TEIform="seg" n="17" part="N" type="line">
<w TEIform="w" part="F">νε</w>, ἀλλ' ἀποκαταστήσεται <expan TEIform="expan"
abbr="ορθο">ὀρθόν</expan>.</seg>
</seg>
<seg TEIform="seg" n="17v2" part="N" type="folio">
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<seg TEIform="seg" n="19" part="N" type="line">διὰ τοῦ ἄξονος ὀρθῶι πρὸς τὸ</seg>
<seg TEIform="seg" n="20" part="N" type="line">ἐπιπέδ<supplied TEIform="supplied"
reason="lost">σ</supplied>ν τὸ ἐν τῇ ἐπιφανείᾳ</seg>
</seg>
</ab>
```




 The Palimpsest


 Conservation


 Imaging


 Scholarship


 Program Management

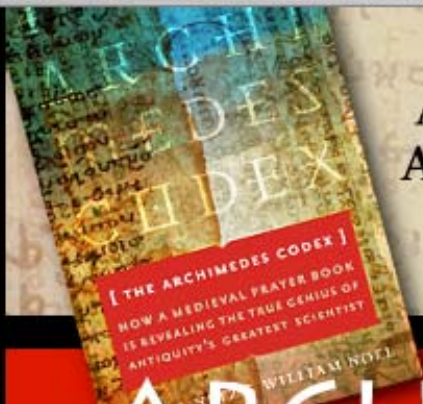

 Digital Product


 Image Bank


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 Press


 About Archimedes



The Story Of The Amazing Discovery Of Archimedes' Lost Works

by Reviel Netz and William Noel

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Palimpsest



Conservation



Imaging



Scholarship



Eureka!

WELCOME. The subject of this website is a manuscript of extraordinary importance to the history of science, the Archimedes Palimpsest. This tenth century manuscript is the unique source for two of Archimedes Treatises, *The Method* and *Stomachion*, and it is the unique source for the Greek text of *On Floating Bodies*. Discovered in 1906 by J.L. Heiberg, it plays a prominent role in his 1910-15 edition of the works of Archimedes, upon which all subsequent work on Archimedes has been based. The manuscript was in private hands throughout much of the twentieth century, and was sold at auction to a private collector on the 29th October 1998. The owner deposited the manuscript at The Walters Art Museum in Baltimore, Maryland, a few months later. Since that date the manuscript has been the subject of conservation, imaging and scholarship. The Archimedes Palimpsest project, as it is called, has generated a great deal of public curiosity, as well as the interest of scholars throughout the world.

This website attempts to give information on the Palimpsest, and on the progress of the project in general. It is designed to be of interest to a wide range of audiences, and many people have contributed to it. I do hope that you find answers to some of the questions you may have concerning the manuscript and the progress of the project on this site.

William Noel
 Curator of Manuscripts
 The Walters Art Museum

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Beta Release

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
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<input type="checkbox"/> 0_ReadMe.txt	29-May-2008 04:14	13K	
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<input type="checkbox"/> 1_FileList.txt	29-May-2008 04:14	445K	
<input type="checkbox"/> Data/	29-May-2008 18:50	-	
<input type="checkbox"/> Documents/	29-May-2008 18:54	-	
<input type="checkbox"/> ResearchContrib/	29-May-2008 18:54	-	
<input type="checkbox"/> Supplemental/	29-May-2008 18:54	-	
<input type="checkbox"/> Support/	29-May-2008 18:55	-	

The Palimpsest

Conservation

Imaging

Scholarship

Program Management

Digital Product

Image Bank

Archimedes forum

Press























About Archimedes

Home

THE ARCHIMEDES PALIMPSEST

THE ARCHIMEDES PALIMPSEST PROJECT: DIGITAL PRODUCT

Beta Release

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 Parent Directory		-	
 0000-100r/	29-May-2008 05:36	-	
 0000-100v/	29-May-2008 08:22	-	
 0000-171r/	29-May-2008 18:24	-	
 0000-171v/	29-May-2008 10:33	-	
 002r-001v/	29-May-2008 09:03	-	
 002v-001r/	29-May-2008 05:40	-	
 003r-006v/	29-May-2008 08:59	-	
 003v-006r/	29-May-2008 04:18	-	
 004r-005v/	29-May-2008 09:25	-	
 004v-005r/	29-May-2008 05:10	-	
 010r-009v/	29-May-2008 18:54	-	
 010v-009r/	29-May-2008 11:44	-	
 011r-008v/	29-May-2008 10:26	-	
 011v-008r/	29-May-2008 17:46	-	
 012r-007v/	29-May-2008 15:29	-	
 012v-007r/	29-May-2008 13:29	-	
 014r-019v/	29-May-2008 07:25	-	
 014v-019r/	29-May-2008 06:12	-	
 015r-018v/	29-May-2008 06:56	-	
 015v-018r/	29-May-2008 07:48	-	
 017r-016v/	29-May-2008 04:26	-	

[The Palimpsest](#)
[Conservation](#)
[Imaging](#)
[Scholarship](#)
[Program Management](#)
[Digital Product](#)
[Image Bank](#)
[Archimedes forum](#)
[Press](#)
[About Archimedes](#)
[Home](#)

THE ARCHIMEDES PALIMPSEST

The Palimpsest

Conservation

Imaging

Scholarship

Program Management

Digital Product

Image Bank

Archimedes forum















































Press

About Archimedes

Home

THE ARCHIMEDES PALIMPSEST PROJECT: DIGITAL PRODUCT

Beta Release

Name	Last modified	Size	Description
 Parent Directory		-	
 017r-016v Arch07r Heiberg ultraviolet stitch beta.md5	29-May-2008 04:23	87	
 017r-016v Arch07r Heiberg ultraviolet stitch beta.tif	29-May-2008 04:22	85M	
 017r-016v Arch07r Sinar LED365_01_pack8.md5	29-May-2008 04:26	77	
 017r-016v Arch07r Sinar LED365_01_pack8.tif	29-May-2008 04:25	254M	
 017r-016v Arch07r Sinar LED445_01_pack8.md5	29-May-2008 04:24	77	
 017r-016v Arch07r Sinar LED445_01_pack8.tif	29-May-2008 04:25	254M	
 017r-016v Arch07r Sinar LED470_01_pack8.md5	29-May-2008 04:23	77	
 017r-016v Arch07r Sinar LED470_01_pack8.tif	29-May-2008 04:24	254M	
 017r-016v Arch07r Sinar LED505_01_pack8.md5	29-May-2008 04:24	77	
 017r-016v Arch07r Sinar LED505_01_pack8.tif	29-May-2008 04:25	254M	
 017r-016v Arch07r Sinar LED530_01_pack8.md5	29-May-2008 04:23	77	
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 017r-016v Arch07r Sinar LED570_01_pack8.tif	29-May-2008 04:24	254M	
 017r-016v Arch07r Sinar LED617_01_pack8.md5	29-May-2008 04:25	77	
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 017r-016v Arch07r Sinar LED625_01_pack8.tif	29-May-2008 04:22	254M	
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 017r-016v Arch07r Sinar LED700_01_pack8.tif	29-May-2008 04:24	254M	
 017r-016v Arch07r Sinar LED735_01_pack8.md5	29-May-2008 04:23	77	
 017r-016v Arch07r Sinar LED735_01_pack8.tif	29-May-2008 04:22	254M	
 017r-016v Arch07r Sinar LED870_01_pack8.md5	29-May-2008 04:23	77	
 017r-016v Arch07r Sinar LED870_01_pack8.tif	29-May-2008 04:22	254M	
 017r-016v Arch07r Sinar RAKBLL_01_pack8.md5	29-May-2008 04:24	77	
 017r-016v Arch07r Sinar RAKBLL_01_pack8.tif	29-May-2008 04:26	254M	
 017r-016v Arch07r Sinar RAKBLR_01_pack8.md5	29-May-2008 04:22	77	
 017r-016v Arch07r Sinar RAKBLR_01_pack8.tif	29-May-2008 04:23	254M	
 017r-016v Arch07r Sinar RAKIRL_01_pack8.md5	29-May-2008 04:24	77	
 017r-016v Arch07r Sinar RAKIRL_01_pack8.tif	29-May-2008 04:25	254M	
 017r-016v Arch07r Sinar RAKIRR_01_pack8.md5	29-May-2008 04:21	77	
 017r-016v Arch07r Sinar RAKIRR_01_pack8.tif	29-May-2008 04:23	254M	
 017r-016v Arch07r Sinar TNGSTN_01_pack8.md5	29-May-2008 04:22	77	
 017r-016v Arch07r Sinar TNGSTN_01_pack8.tif	29-May-2008 04:23	254M	
 017r-016v Arch07r Sinar pseudo_no-veil.md5	29-May-2008 04:23	76	
 017r-016v Arch07r Sinar pseudo_no-veil.tif	29-May-2008 04:22	254M	
 017r-016v Arch07r Sinar pseudo_sharpie.md5	29-May-2008 04:25	76	
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 017r-016v Arch07r Sinar true_pack8.md5	29-May-2008 04:24	72	
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 017r-016v Arch07r Sinar ultraviolet_norm8.md5	29-May-2008 04:24	79	
 017r-016v Arch07r Sinar ultraviolet_norm8.tif	29-May-2008 04:23	85M	
 017r-016v Arch07r TEI Heiberg.md5	29-May-2008 04:24	67	
 017r-016v Arch07r TEI Heiberg.xml	29-May-2008 04:24	15K	
 017r-016v Arch07r TEI Heiberg.tif	29-May-2008 04:25	71	

Archimedes Palimpsest Digital Release README Document

Authors: Mike Toth

Doug Emery

Date: May 23, 2008

Contents

- [1 Rights and Conditions of Use](#)
- [2 Intended Audience and Consumers](#)
- [3 Digital Project Data Set Purpose](#)
- [4 Data Set Contents](#)
 - [4.1 Core Data Content](#)
 - [4.2 Documentation](#)
 - [4.2.1 External Documentation](#)
 - [4.2.2 Internal Documentation](#)
 - [4.3 Supporting Functional Files](#)
 - [4.4 Supplemental Files](#)
 - [4.5 Contributed Research Files](#)
- [5 How to Use This Data Set](#)
 - [5.1 General Orientation](#)
 - [5.2 Metadata](#)
 - [5.2 Computer Access Tools](#)
 - [5.3 Scientific Information](#)

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The Archimedes Palimpsest Digital Product is intended to serve any interested user or party. However, its content is focused on serving the following groups.

1. Scholars of Greek and mathematics
2. Application providers
3. Libraries and archives

Archimedes Palimpsest Digital Release File List

Contents

- [Rights and Conditions of Use](#)
- [Data Set Contents](#)
 - [Root Directory](#)
 - [Data Directory](#)
 - [Documents Directory](#)
 - [External Documentation](#)
 - [Internal Documentation](#)
 - [Research Contributed Directory](#)
 - [Supplemental Materials](#)
 - [Supporting Files](#)

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Data Set Contents

Root Directory

- [/:](#)
 - [0_ReadMe.html](#)
 - [0_ReadMe.txt](#)
 - [1_FileList.html](#)
 - [1_FileList.txt](#)
 - [Data](#)
 - [Documents](#)
 - [ResearchContrib](#)
 - [Supplemental](#)
 - [Support](#)

Data Directory

File Naming Conventions

Archimedes Palimpsest Digital Release

Author: Doug Emery

Date: May 23, 2008

Contents

- [1 General Conventions](#)
 - [1.1 Folio Designation](#)
 - [1.2 File-Dependent Components](#)
- [2 Image Files](#)
 - [2.1 Imaging System/Group](#)
 - [2.2 Imaging and Processing Details](#)
 - [2.3 Image Illumination/Detector](#)
 - [2.4 Image Processing](#)
 - [2.5 Image Set](#)
 - [2.6 Image Tag](#)
- [3 XML Files](#)
 - [3.1 Transcription files](#)
 - [3.1.1 Content Type](#)
 - [3.1.2 Transcription Source](#)
 - [3.2 Spatial Index Files](#)
 - [3.2.1 Content Type](#)
 - [3.3 Supplemental XML Files](#)
 - [3.3.1 Author](#)
 - [3.3.2 Work](#)
 - [3.3.3 Content Type](#)
 - [3.3.4 Transcription Source](#)
- [4 References](#)

1 General Conventions

1.1 Folio Designation

All core data files are prefixed with a two-part folio designation. There are 180 separate folio designations. The complete list of folios, the relations between the prayer book and under

Archimedes Palimpsest Folio Index

Authors: Will Noel

Doug Emery

Date: May 23, 2008

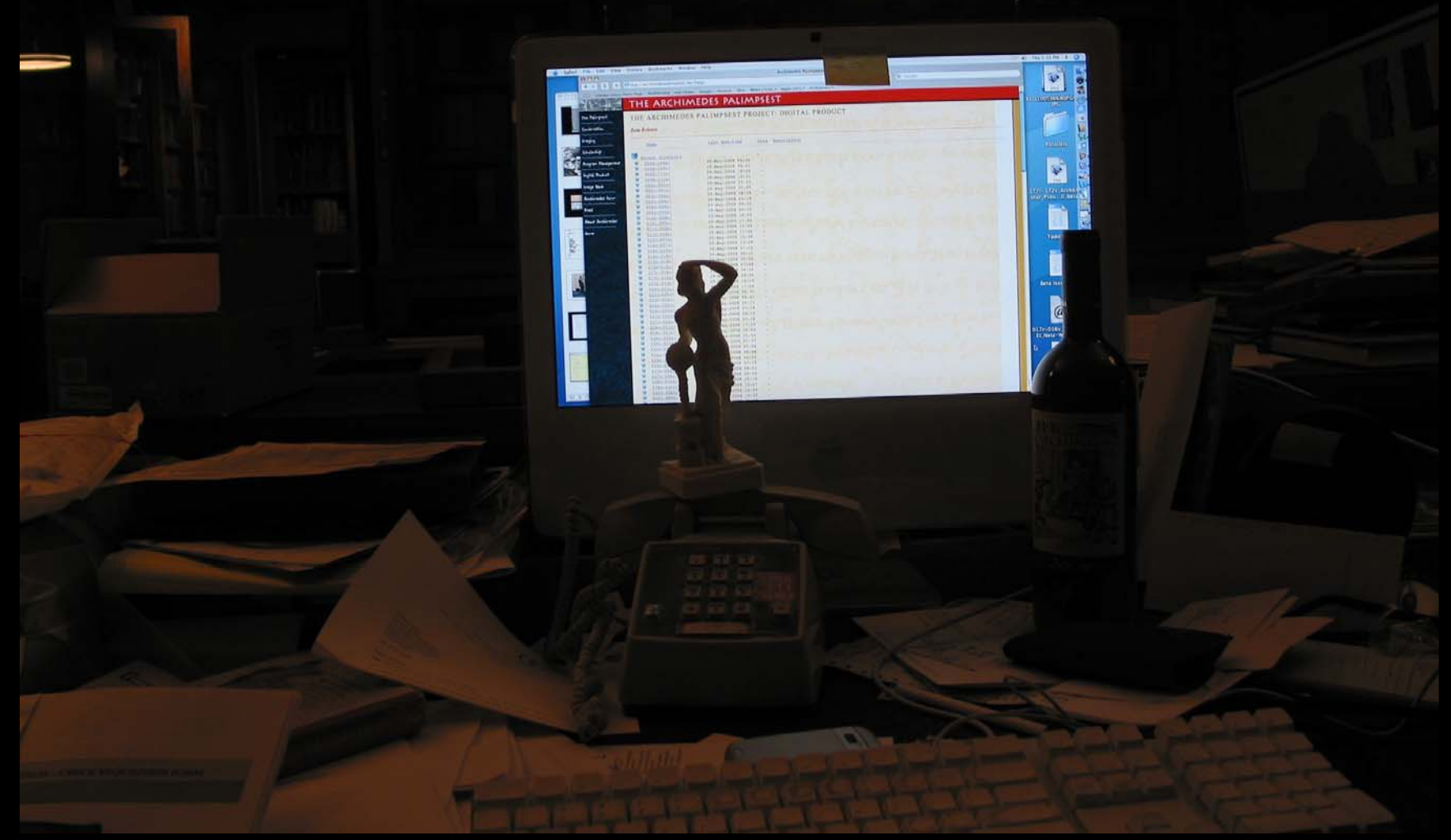
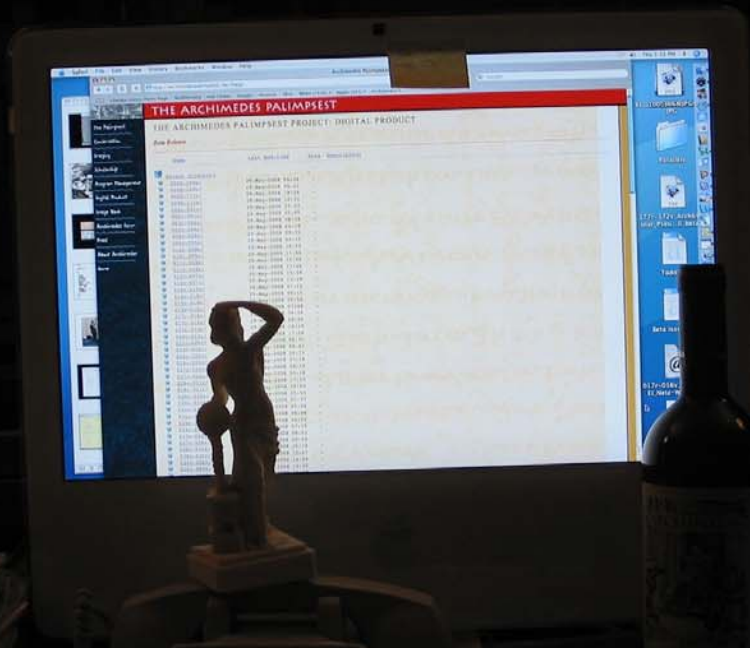
Contents

- [1 Introduction](#)
- [2 The Folios in the Data Set](#)
- [3 The Texts in the Data Set](#)
- [4 The Foliation of the Data Set](#)
- [5 Texts by Author and Work](#)
 - [5.1 Alexander of Aphrodisias](#)
 - [5.2 Archimedes](#)
 - [5.2.1 Equilibrium of Planes](#)
 - [5.2.2 On Floating Bodies](#)
 - [5.2.3 The Method of Mechanical Theorems](#)
 - [5.2.4 Spiral Lines](#)
 - [5.2.5 Sphere and Cylinder](#)
 - [5.2.6 The Measurement of the Circle](#)
 - [5.2.7 The Stomachion](#)
 - [5.3 Hyperides](#)
 - [5.3.1 Diondas](#)
 - [5.3.2 Timandros](#)
 - [5.4 Menaion](#)
 - [5.5 Life of St. Pantoleon](#)
 - [5.6 Unidentified Texts](#)
 - [5.6.1 Unknown A, 10th Century](#)
 - [5.6.2 Unknown B](#)
- [6 Texts by Undertext Folio](#)
- [7 Texts by Prayer Book Folio](#)

1 Introduction

The purpose of this document is to make clear which texts appear on which folios of the Archimedes Palimpsest, and, where possible, to indicate the folio sequence of each text. This document also lists all the Archimedes Palimpsest folios included in the data set, organized by author and work, undertext folio, and prayer book folio.





THE ARCHIMEDES PALIMPSEST

The Palimpsest

Conservation

Imaging

Scholarship

Program Management

Digital Product

Image Bank

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Press

About Archimedes

Home

THE ARCHIMEDES PALIMPSEST PROJECT: DIGITAL PRODUCT

Beta Release

Name	Last modified	Size	Description
 Parent Directory		-	
 017r-016v Arch07r Heiberg ultraviolet stitch beta.md5	29-May-2008 04:23	87	
 017r-016v Arch07r Heiberg ultraviolet stitch beta.tif	29-May-2008 04:22	85M	
 017r-016v Arch07r Sinar LED365_01_pack8.md5	29-May-2008 04:26	77	
 017r-016v Arch07r Sinar LED365_01_pack8.tif	29-May-2008 04:25	254M	
 017r-016v Arch07r Sinar LED445_01_pack8.md5	29-May-2008 04:24	77	
 017r-016v Arch07r Sinar LED445_01_pack8.tif	29-May-2008 04:25	254M	
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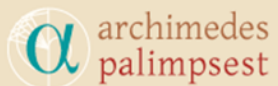
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Introduction to the Palimpsest

The Archimedes Palimpsest is a medieval parchment manuscript, now consisting of 174 parchment folios. While it contains no less than seven treatises by Archimedes, calling it the Archimedes Palimpsest is a little confusing. As it is now, the manuscript is a Byzantine prayerbook, written in Greek, and technically called a euchologion.

To make this prayer book, scribes used parchment that had already been used for the writings of other books. They used a book containing at least seven treatises by Archimedes, a book with two speeches by Hyperides, fragments of a philosophical text most likely written by Alexander of Aphrodisias, fragments from a Life of St. Pantoleon, fragments from a Menaion, and two unidentified texts.

You can choose to view a specific work (i.e. *On Floating Bodies*, which is one of the seven works by Archimedes), or you can choose to view a specific folio (i.e. the undertext or overtext.)

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Authors

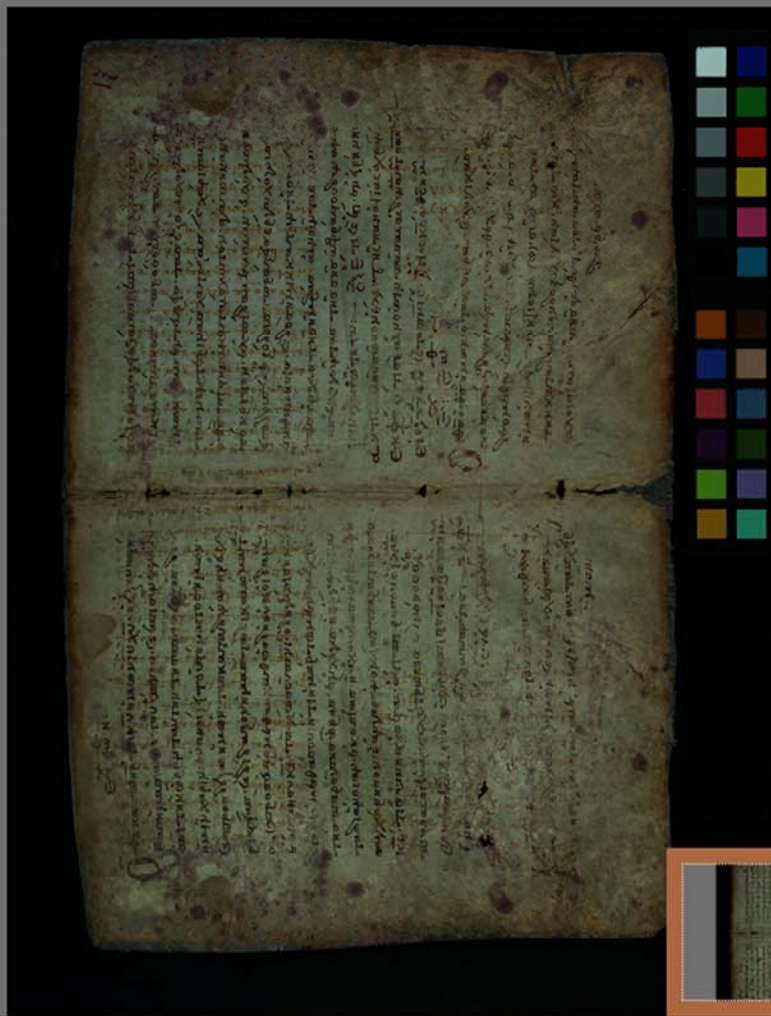
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	On 735nm - IR 1	+ - 10
	On 870nm - IR 2	+ - 10
	On Tungsten	+ - 10
	On UV mono	+ - 10
	On Heiberg	+ - 10
	On Heiberg UV	+ - 10
	On Raking IR Rt	+ - 10
	On Raking IR Lt	+ - 10
	On Raking Blue Rt	+ - 10



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	On Raking IR Lt	+ - 10
	On Raking Blue Rt	+ - 10



ON FLOATING BODIES























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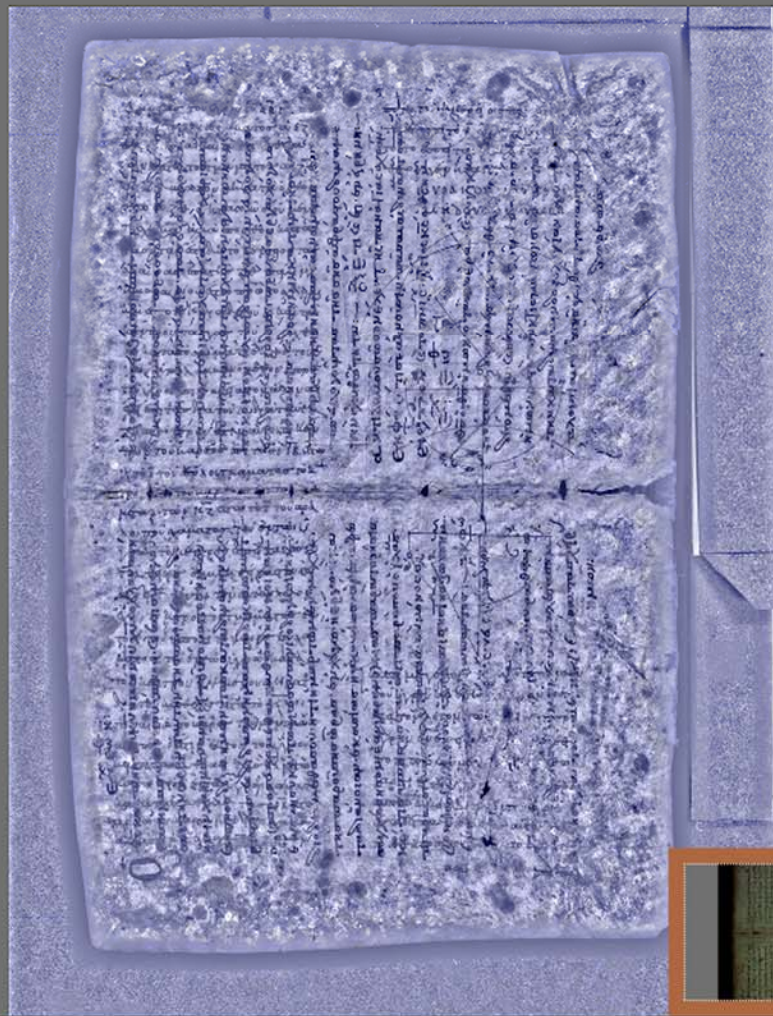
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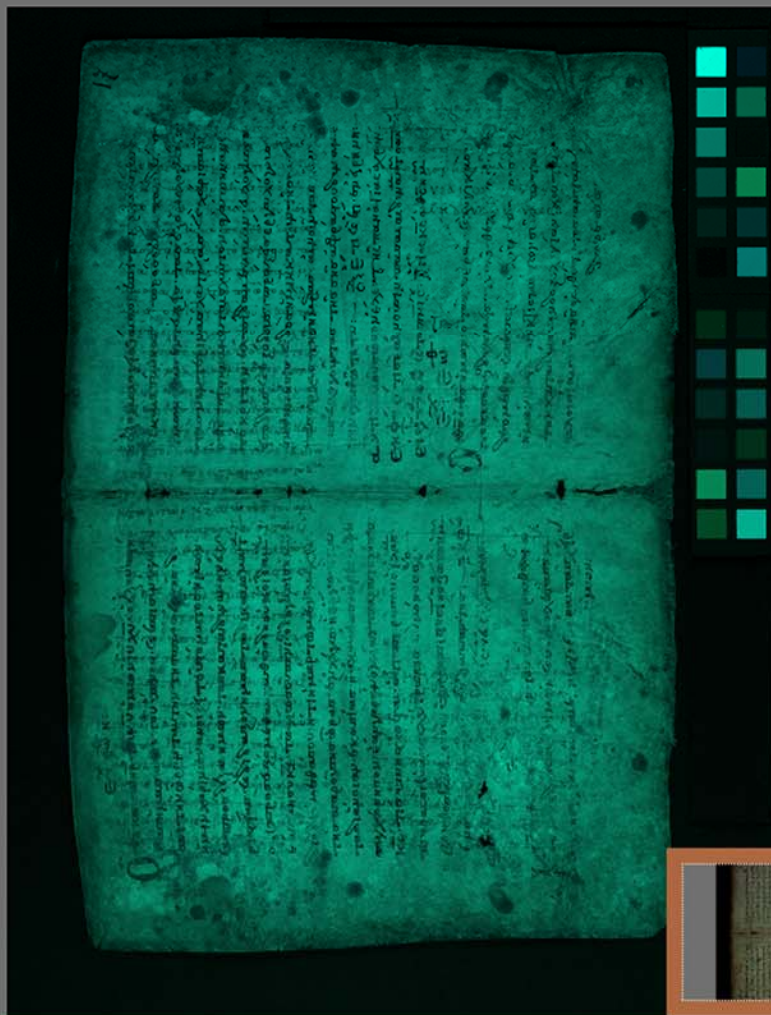
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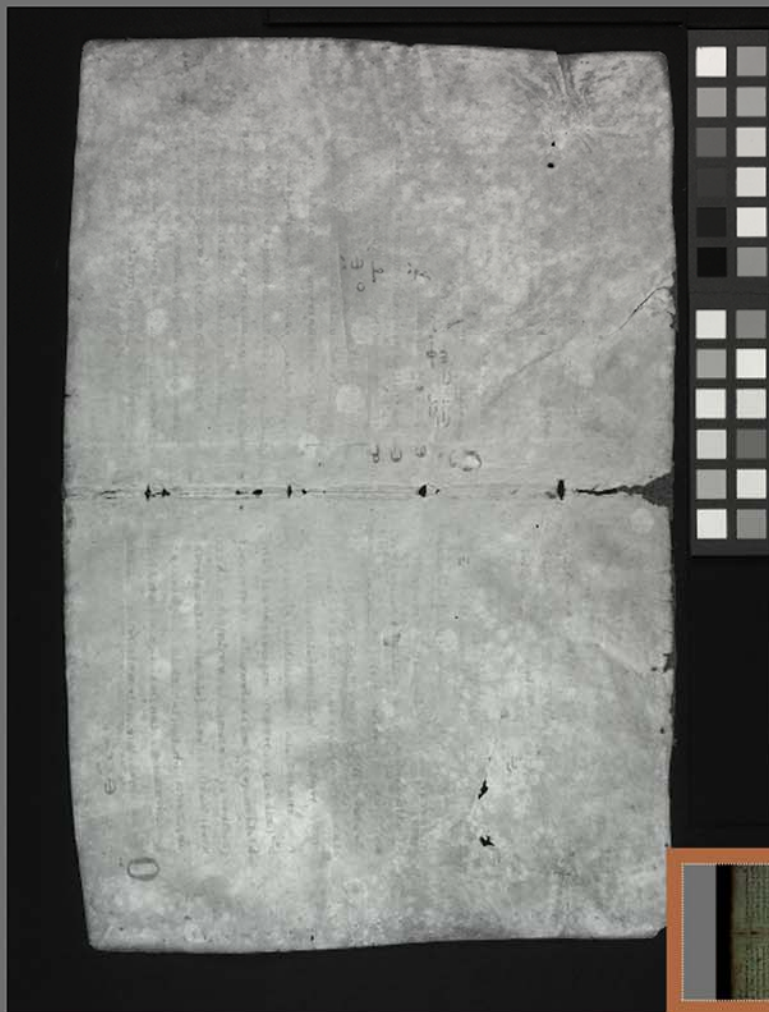
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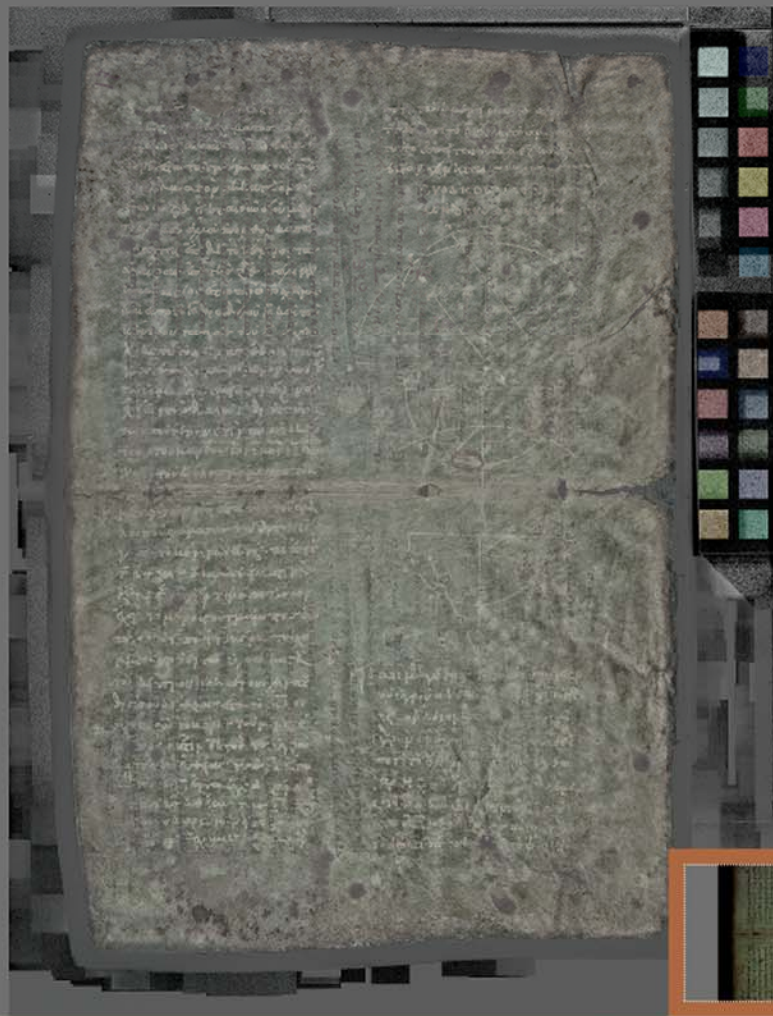
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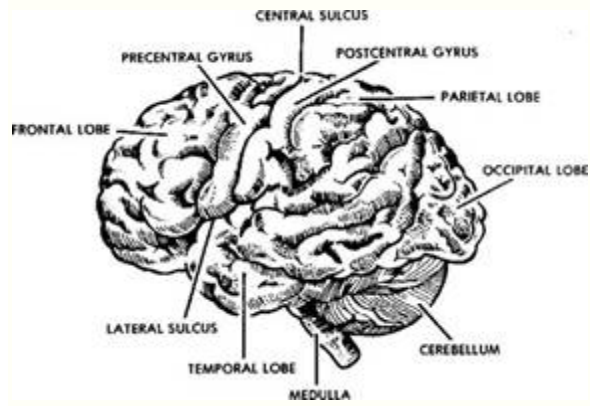


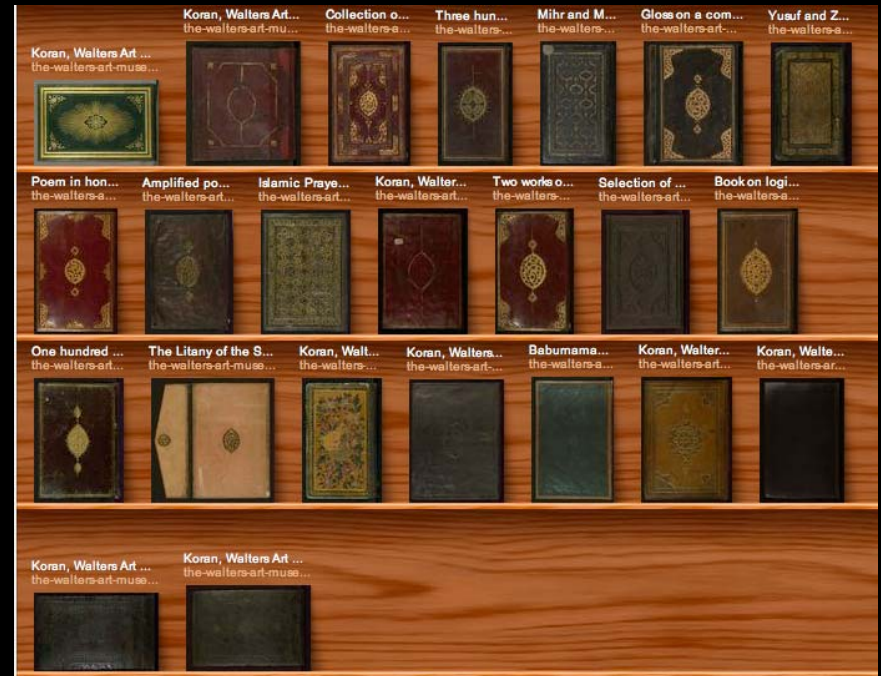
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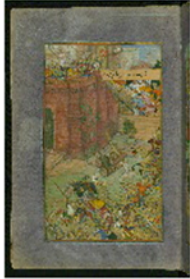
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13. Folio 6a



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متحف والترز للفنون

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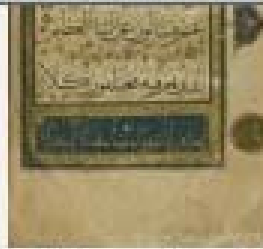
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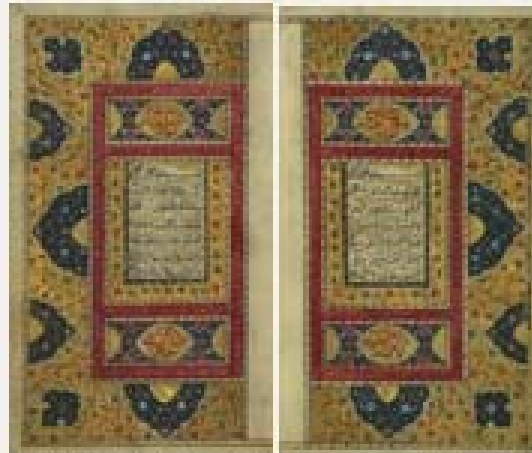


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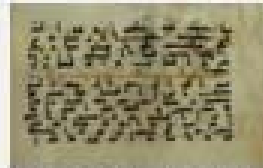
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الأرجح في القرن التاسع الهجري
(اضغط الصورة للتوجه للمصدر ومطالعة تفاصيل المخطوطة)



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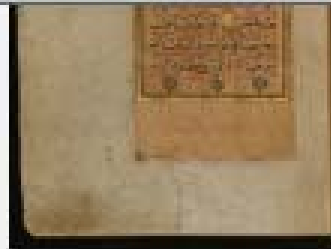


آيات كريمة من سورة الأعراف على صفحة مخطوطة عباسية مذهبية كتبت
بالقرن الثالث الهجري
(اضغط الصورة للتوجه للمصدر ومطالعة تفاصيل المخطوطة)



مصحف كتب بخط المخطون سنة 802هـ. الصفحة الأولى تشير أنه وقف مكتبة
الوالي الملوكي البيطيش لخدمته بباب الوزير بالقاهرة.
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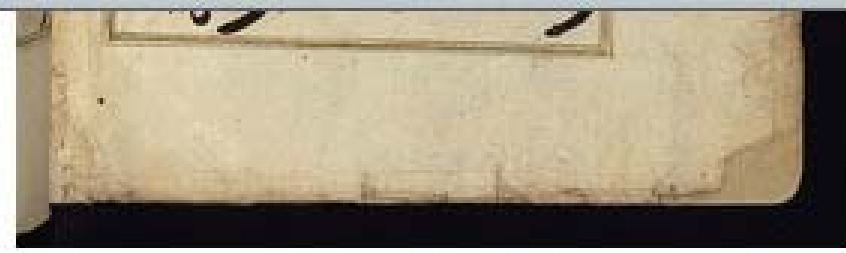
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<http://thewallers.org>

وانظر: متحف والترز: ثقافة في تناول الجميع

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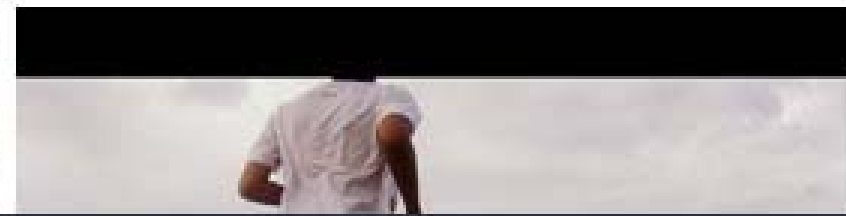




Illuminated Manuscript Koran, Walters Art Museum Ms. 568, fol. 1b



Jiblah, At the Mosque, by a2portfolio





فَأَقْرَبُ فِي هَذَا الْكِتَابِ ذِكْرُ الصَّلَاةِ
 عَلَى النَّبِيِّ صَلَّى اللَّهُ عَلَيْهِ وَسَلَّمَ
 وَقَضَائِهَا نَذْرًا مَعَهُ وَفِي الْأَسَانِيدِ
 لَيْسَ هَلْ حَفِظَهَا عَلَى الْقَارِئِ وَهِيَ
 مِنْ أَهَمِّ الْمُتَعَمَّاتِ لِمَنْ يُرِيدُ الْقُرْبَ
 مِنْ رَبِّهِ الْأَرْبَابِ وَسَمِيَّتْ بِكِتَابِ
 دَلَائِلِ الْخَيْرَاتِ وَسَوَادِ قِيَالِ نَوَارِ
 فِي ذِكْرِ الصَّلَاةِ عَلَى النَّبِيِّ الْخَيْرِ
 أَنْبَاءَ لِرُجُوبِ اللَّهِ تَعَالَى وَحَمْدَهُ
 فِي رَسُولِهِ الْكَرِيمِ صَلَّى اللَّهُ عَلَيْهِ
 وَسَلَّمَ تَسْلِيمًا وَاللَّهُ السُّؤْلَى بِحَسْبِ

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
 وَصَلَّى اللَّهُ عَلَى سَيِّدِنَا مُحَمَّدٍ وَعَلَى آلِهِ
 وَصَحْبِهِ وَسَلَّمَ أَجْمَعِينَ اللَّهُ الَّذِي هَدَانَا
 لِلْإِيمَانِ وَالْإِسْلَامِ وَالصَّلَاةِ عَلَيْهِ
 سَلَامٌ الَّذِي اسْتَقَدْنَا بِهِ مِنْ عِبَادَةِ
 الْأَوْثَانِ وَالْأَصْنَامِ وَعَلَى آلِهِ
 وَأَصْحَابِهِ أَجْمَعِينَ وَالْحَمْدُ لِلَّهِ الْكَرِيمِ

فَأَقْرَبُ فِي هَذَا الْكِتَابِ
 ذِكْرُ الصَّلَاةِ عَلَى النَّبِيِّ
 صَلَّى اللَّهُ عَلَيْهِ وَسَلَّمَ
 وَالْحَمْدُ لِلَّهِ الَّذِي هَدَانَا
 لِلْإِيمَانِ وَالْإِسْلَامِ
 وَالصَّلَاةِ عَلَيْهِ سَلَامٌ
 وَالْحَمْدُ لِلَّهِ الْكَرِيمِ



لِسْتَيْهِ مِنَ التَّائِبِينَ وَلِنَايَةِ الْكَمَاةِ
 مِنَ الْحَبِيبِينَ قَاتَهُ عَلَى ذَلِكَ هَدِيرٌ
 لَا إِلَهَ عِزَّهُ وَلَا خَيْرَ الْآخِرَةِ وَهُوَ
 نَعِمَ مُؤْتَى وَيَعْلَمُ النَّصِيرُ وَلَا حَوْلَ
 وَلَا قُوَّةَ إِلَّا بِاللَّهِ الْعَلِيِّ الْعَظِيمِ فَصَلِّ
 فِي فَضْلِ الصَّلَاةِ عَلَى النَّبِيِّ صَلَّى اللَّهُ عَلَيْهِ
 وَسَلَّمَ قَالَ اللَّهُ عَزَّ وَجَلَّ إِنَّ اللَّهَ
 وَمَلَائِكَتَهُ يُصَلُّونَ عَلَى النَّبِيِّ يَا أَيُّهَا
 الَّذِينَ آمَنُوا صَلُّوا عَلَيْهِ وَسَلِّمُوا تَسْلِيمًا
 وَيُرْوَى أَنَّ رَسُولَ اللَّهِ صَلَّى اللَّهُ عَلَيْهِ
 وَسَلَّمَ جَاءَ ذَاتَ يَوْمٍ وَالتَّبَسَّرَى

تري

تري في وجهه فقال انه جاء في خبره
 عليه السلام فقال اما ترضى يا محمد
 ان لا يصلي عليك احد من امتك الا صليت
 عليه عشرا ولا يسلم عليك احد
 من امتك الا سلمت عليه عشرا
 وقال صلى الله عليه وسلم ان
 اولي الناس بواكثرتهم على صلاة
 وقال صلى الله عليه وسلم من صلى
 علي صحت عليه الملكة ما دام يصلي
 علي فليقبل عند ذلك اولئك
 وقال صلى الله عليه وسلم





W.672: Album of Ottoman Calligraphy

Walters manuscript W.672 is an album (muraqqa') of calligraphy in the form of an accordion book put together by an anonymous collector, probably in the 12th AH/AD 18th century. It consists of leaves bearing fragmentary passages from the Qur'an (Surat al-Baqarah, 2:65-68 and Surat al-Nisa', 4:103-106), some sayings of the Prophet Muhammad, and two sheets of pen exercises (karalama). Folio 5a bears the name of the celebrated Ottoman calligrapher Seyh Hamdullah (Hamd Allah al-Amasi, d. 926 AH/AD 1520).

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Album of Ottoman Calligraphy

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Illuminated Manuscript Map of Cairo, from Book on Navigation, Walters Ms. W.658, fol. 305b

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Originally composed in 932 AH / 1525 CE and dedicated to Sultan Süleyman I ("The Magnificent"), this great work by Piri Reis (d. 962 AH / 1555 CE) on navigation was later revised and expanded. The present manuscript, made mostly in the late 11th AH / 17th CE century, is based on the later expanded version with some 240 exquisitely executed maps and portolan charts. They include a world map (fol.41a) with the outline of the Americas, as

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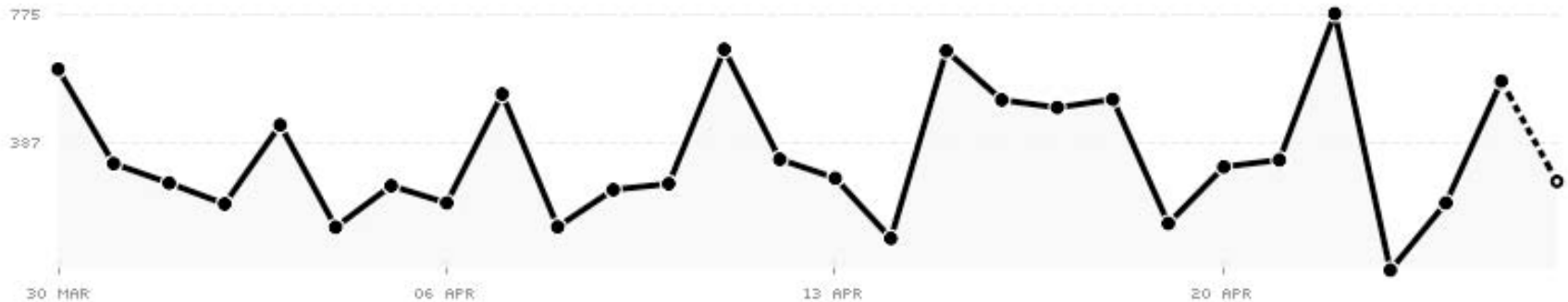
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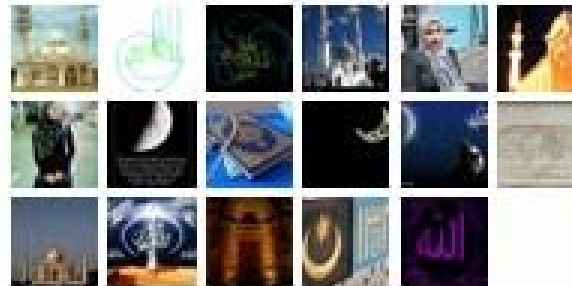
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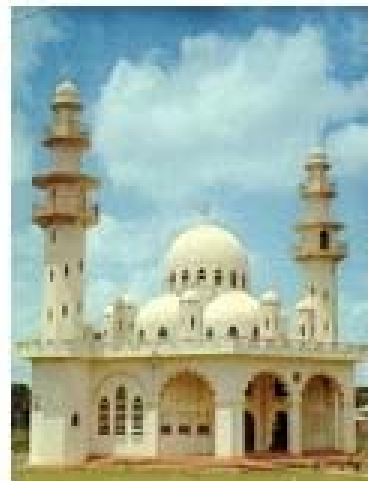


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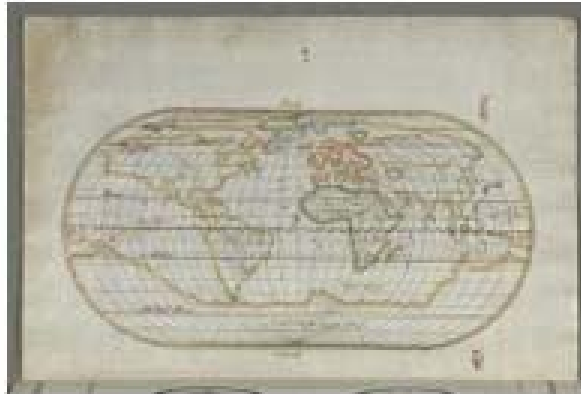
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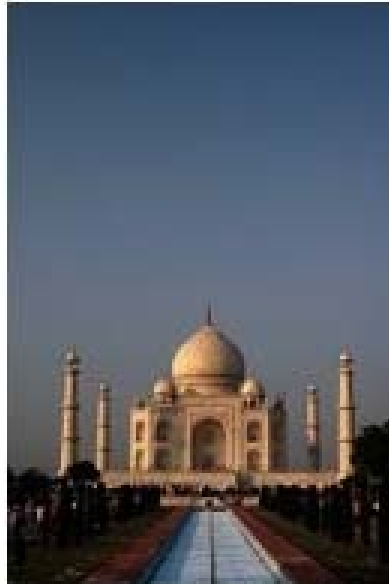
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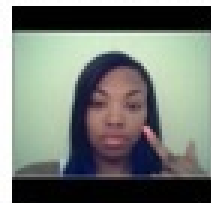


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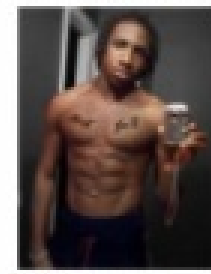
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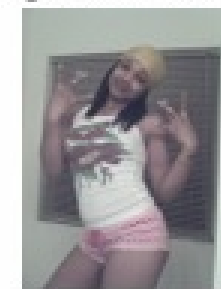
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