

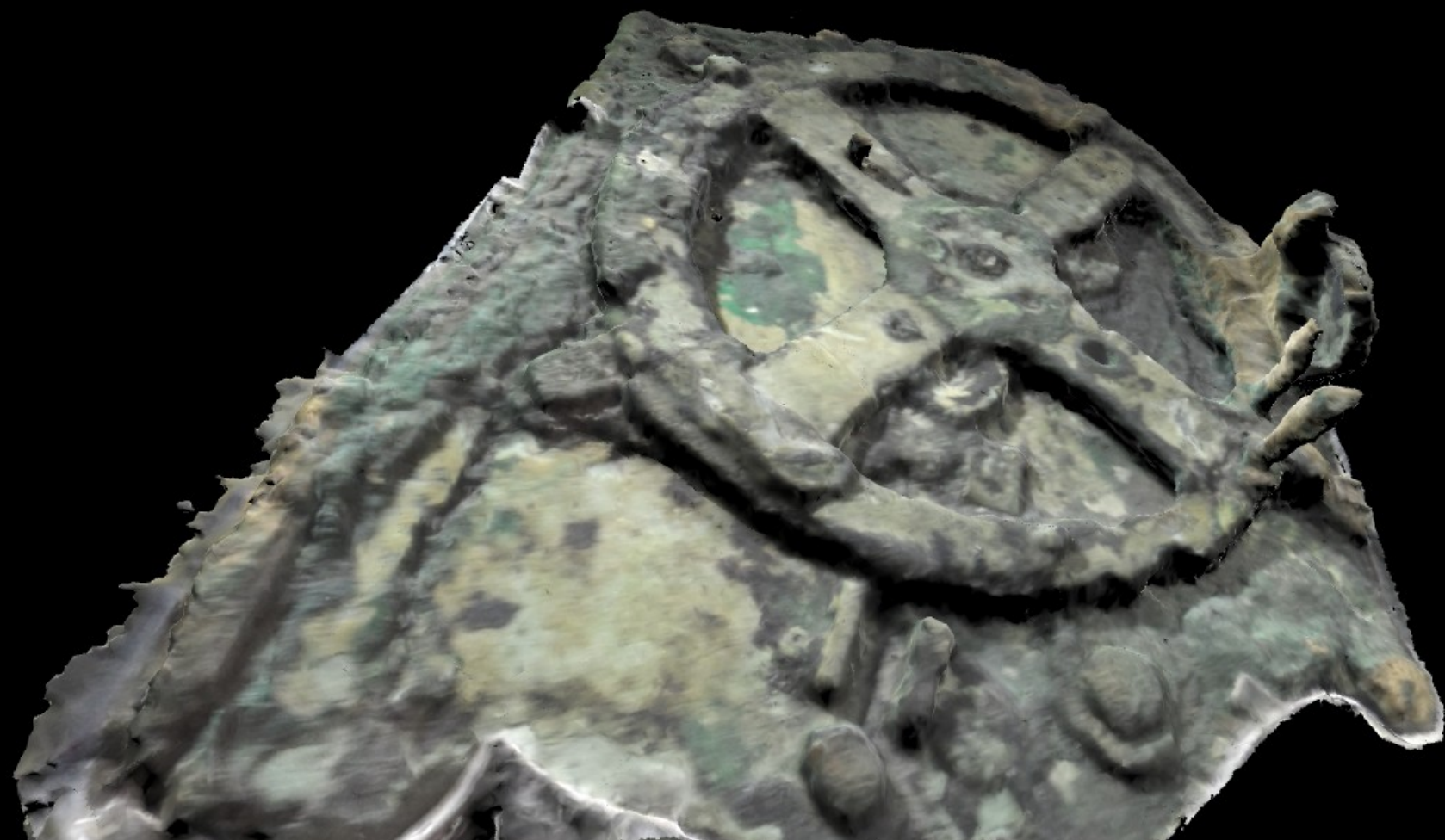


The Antikythera Mechanism

Data Visualization
Using Virtual Reality



INDIANA JONES













«Quodsi in Scythiam aut in Britanniam sphaeram aliquis tulerit hanc quam nuper familiaris noster effecit Posidonius, cuius singulae conversiones idem efficiunt in sole et in luna et in quinque stellis errantibus quod efficitur in caelo singulis diebus et noctibus.»

«Let us assume that a traveler brings an orrery to Scythia or Britain, as constructed by our friend Poseidonius, the individual revolutions of which produce the same thing with the sun, moon and the five planets that takes place in the real sky during the days and nights.»

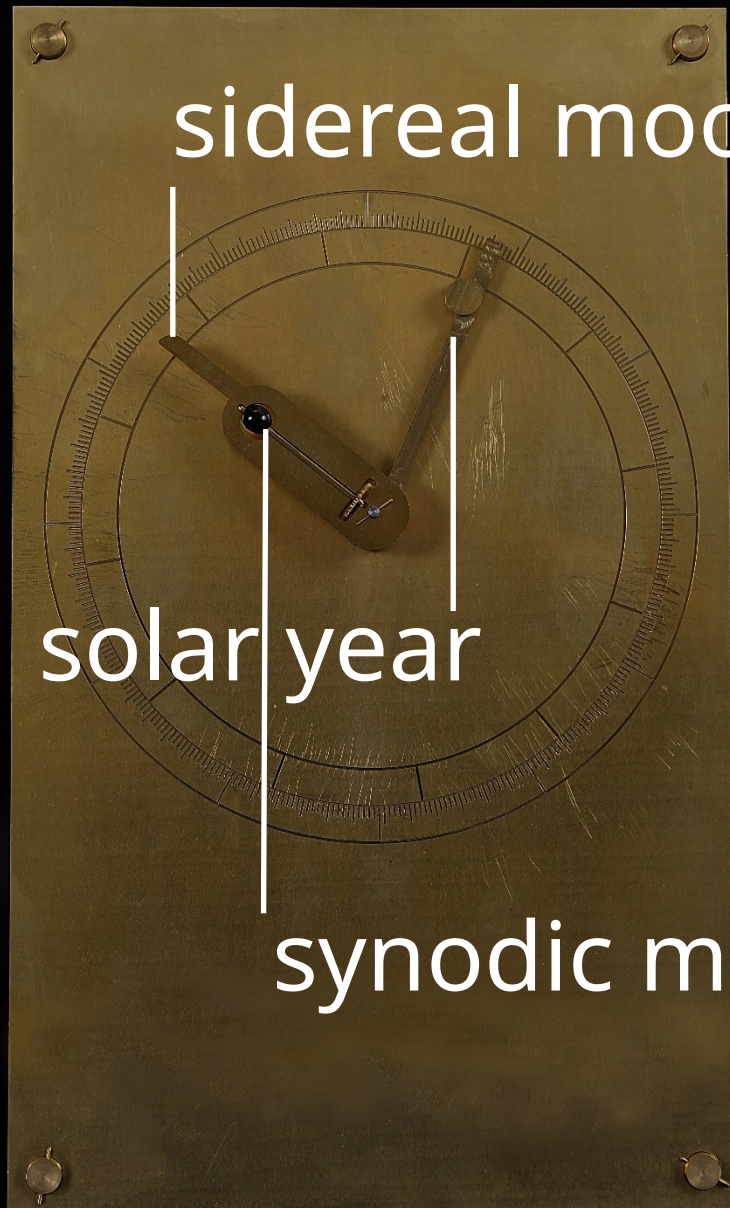










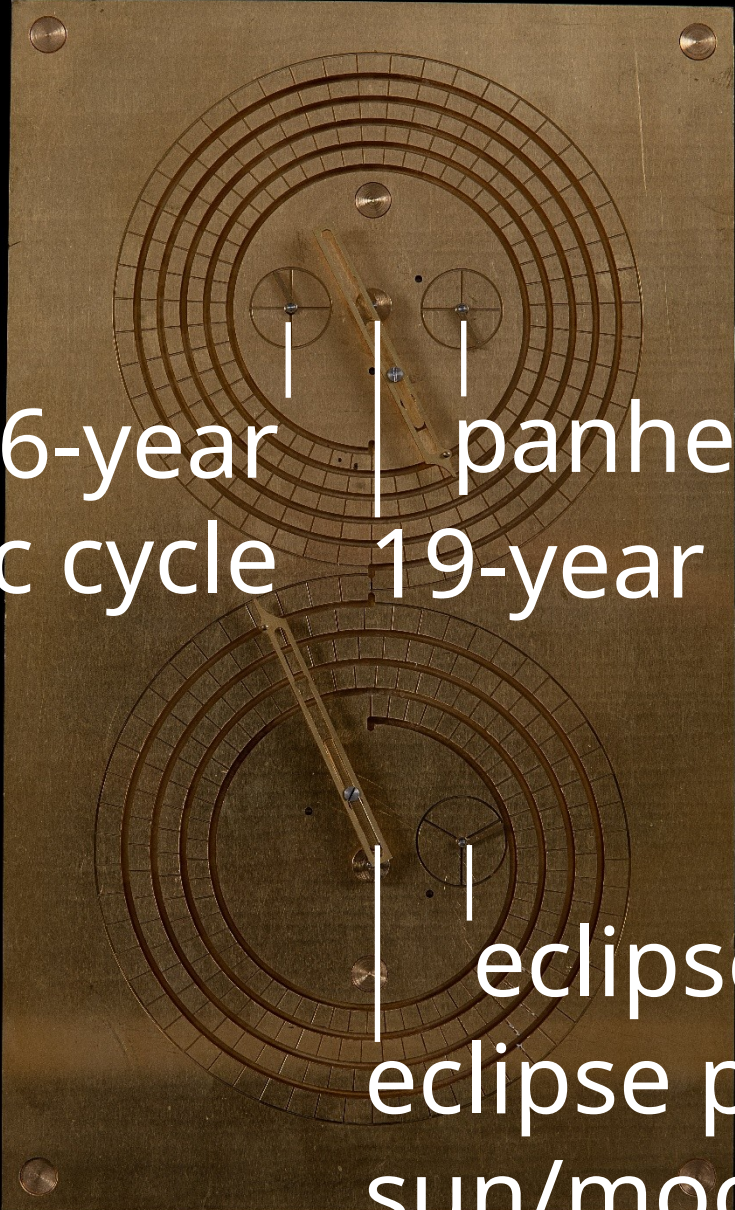


sidereal moon cycle

solar year

draconic moon cycle

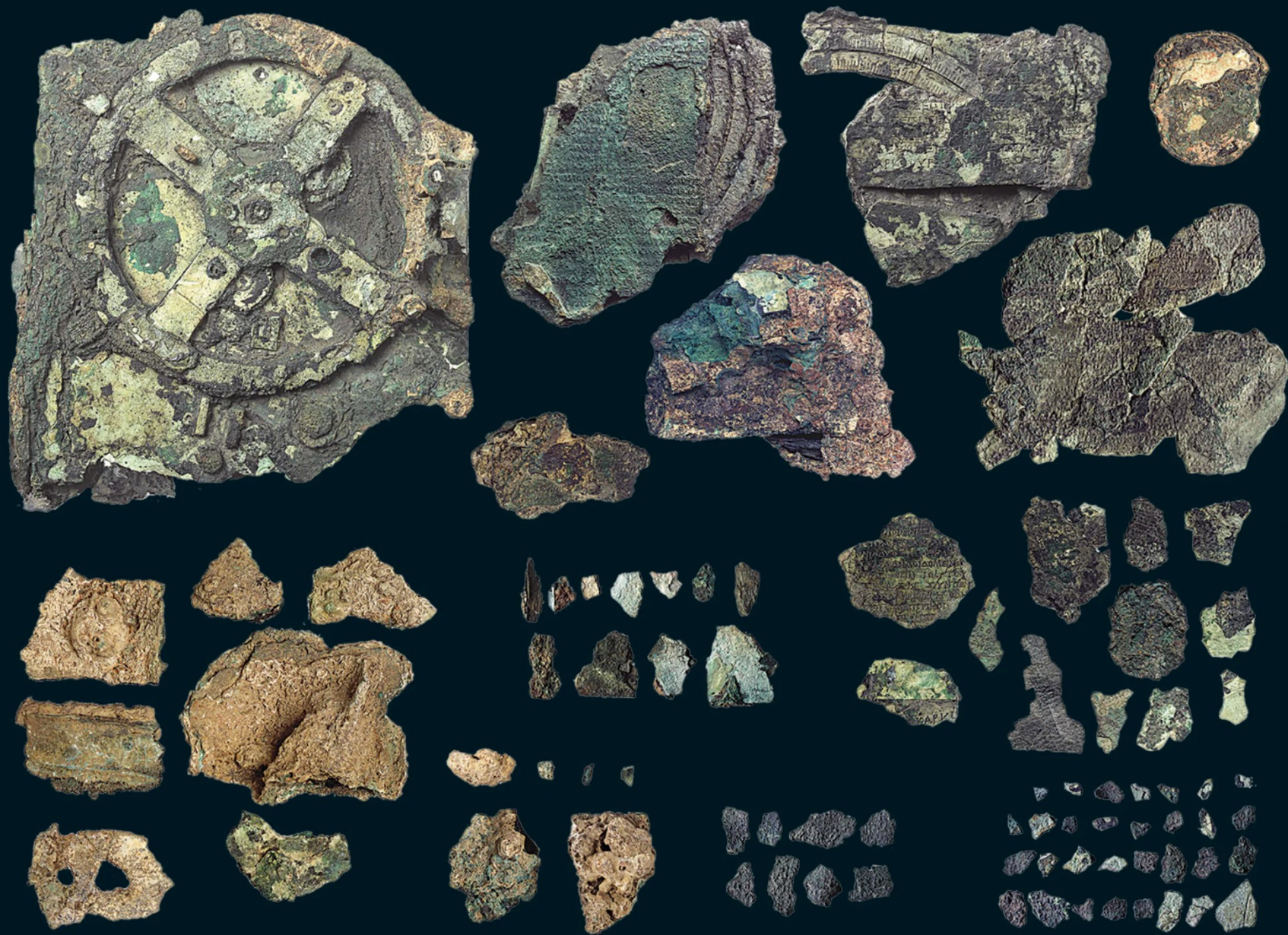
synodic moon cycle (lunar phase)

The image shows the Antikythera mechanism, an ancient Greek analog computer. It consists of a rectangular brass plate with two circular dials. Each dial has concentric rings of teeth and a central pointer. The top dial has three smaller sub-dials. The bottom dial has one sub-dial. The mechanism is used for predicting astronomical events. The text labels are overlaid on the image, with vertical lines pointing to specific parts of the mechanism.

76-year
callippic cycle

panhellenic games
19-year metonic cycle

eclipse time of day
eclipse prediction
sun/moon



Our current knowledge of the **Antikythera Mechanism**

JH Seiradakis, [MG Edmunds](#) - Nature Astronomy, 2018 - nature.com

... **Antikythera Mechanism** and an elementary geared Byzantine sundial 3 from around the late fifth or early sixth century bce. The **Antikythera Mechanism** ... 1), geared **mechanism**, made of ...

☆ Speichern Zitiert von: 45 Ähnliche Artikel Alle 5 Versionen Web of Science: 10 »

The **Antikythera mechanism** reconsidered

MT Wright - Interdisciplinary science reviews, 2007 - journals.sagepub.com

... The considerable bulk of this '**Antikythera treasure**' included ... geared **mechanism**, was recognised only later. The first official description of what we now call the **Antikythera Mechanism** ...

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Decoding the ancient Greek astronomical calculator known as the **Antikythera Mechanism**

T Freeth, Y Bitsakis, X Moussas, JH Seiradakis... - Nature, 2006 - nature.com

... The **Antikythera Mechanism** is a unique Greek geared device, ... shipwreck, the **Antikythera Mechanism** is technically more ... The **mechanism** predicted lunar and solar eclipses on the ...

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Gears from the Greeks. The **Antikythera mechanism**: a calendar computer from ca. 80 BC

D de Solla Price - Transactions of the American Philosophical Society, 1974 - JSTOR

... to appreciate the deep significance of the **Antikythera mechanism** which was known to me ... , I published a new evaluation of the **Antikythera mechanism** in an article, "Clockwork before ...

☆ Speichern Zitiert von: 363 Ähnliche Artikel Alle 7 Versionen Web of Science: 52 »

A Model of the Cosmos in the ancient Greek **Antikythera Mechanism**

T Freeth, D Higgon, A Dacanalis, L MacDonald... - Scientific reports, 2021 - nature.com

... Here we propose that the **Antikythera Mechanism** itself calculated these synodic intervals by counting days on the Calendar Dial between synodic events indicated by the synodic scale ...

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The **Antikythera mechanism** and the mechanical universe

MG Edmunds - Contemporary physics, 2014 - Taylor & Francis

... based around the **Antikythera Mechanism**, an artefact from ... BC as witnessed by the **Antikythera Mechanism** comes as a great ... and functions of the **Antikythera Mechanism** are described. ...

☆ Speichern Zitiert von: 22 Ähnliche Artikel Alle 6 Versionen Web of Science: 9 »

[PDF] The **Antikythera mechanism**: a new gearing scheme

MT Wright - Bulletin of the Scientific Instrument Society, 2005 - fsoso.online.fr

The **Antikythera Mechanism**, the oldest geared instrument in the world, became widely known through the work of Professor Derek de Solla Price; and for anyone seriously interested in ...

☆ Speichern Zitiert von: 61 Ähnliche Artikel Alle 4 Versionen »

[PDF] Understanding the **Antikythera mechanism**

MT Wright - ... Second International Conference on Ancient Greek ..., 2006 - hist.science.free.fr

... The fragmentary **Antikythera Mechanism**, recovered from a shipwreck that is dateable ...

Mechanism remained but poorly understood. A new reconstruction of the **Antikythera Mechanism** ...

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[PDF] sagepub.com

[PDF] shiftleft.com

[PDF] jstor.org

[PDF] nature.com

[PDF] tandfonline.com
Full View

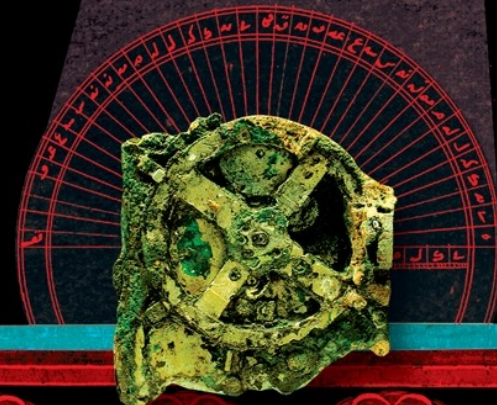
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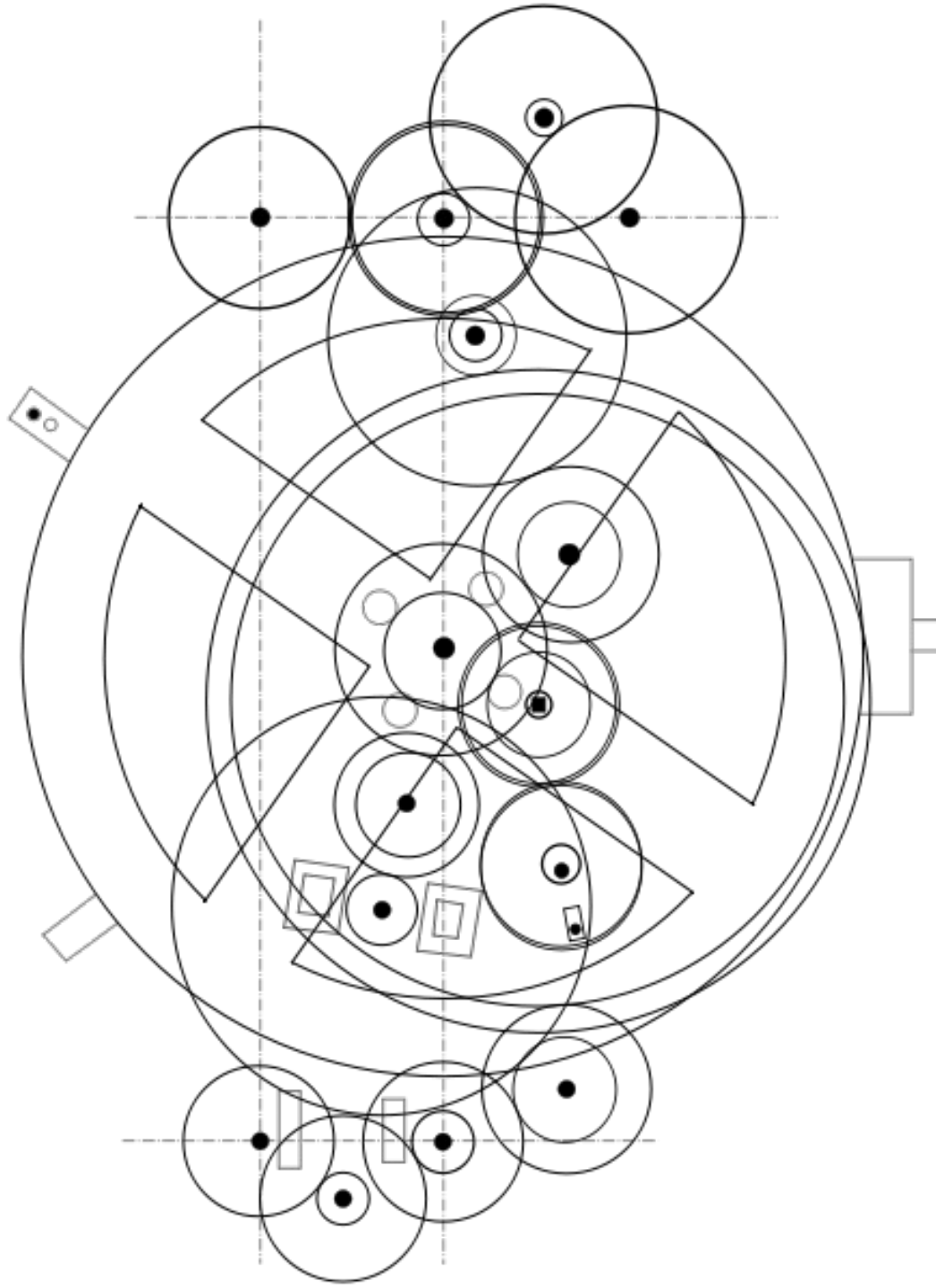
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Solving the
mystery of
the world's first
computer

Decoding the Heavens

Jo Marchant





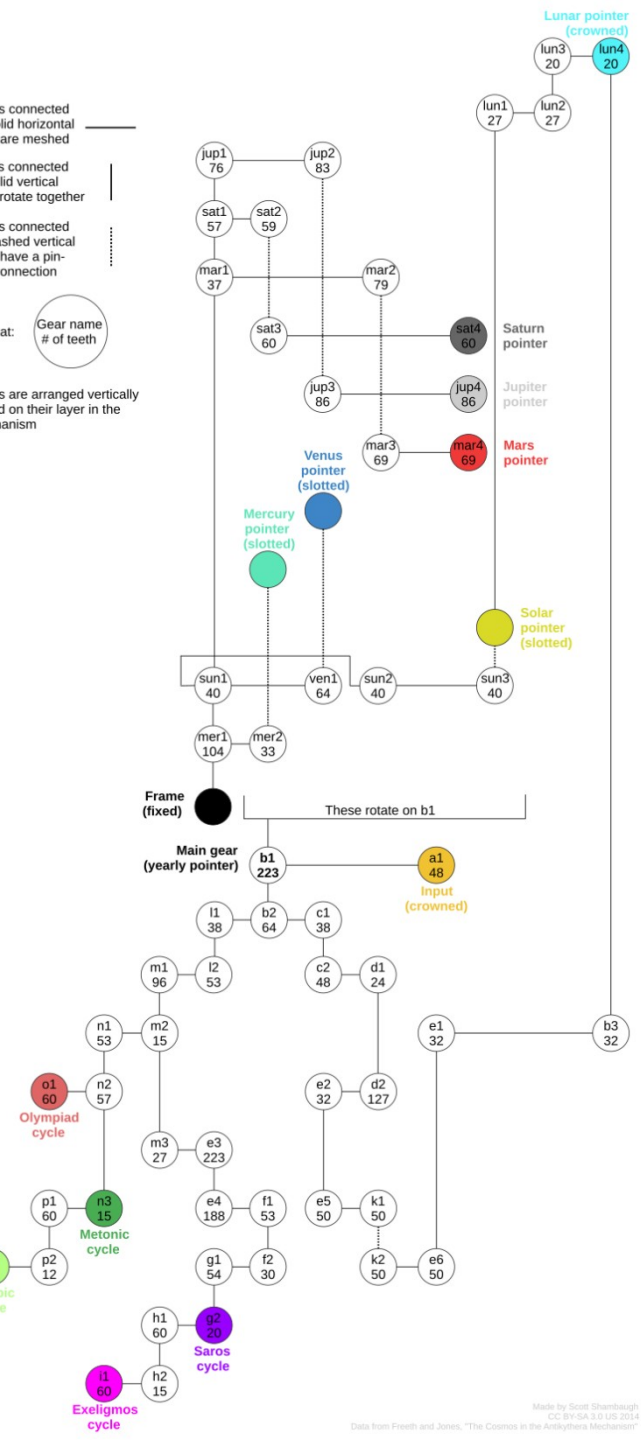
Gears connected
by solid horizontal
lines are meshed

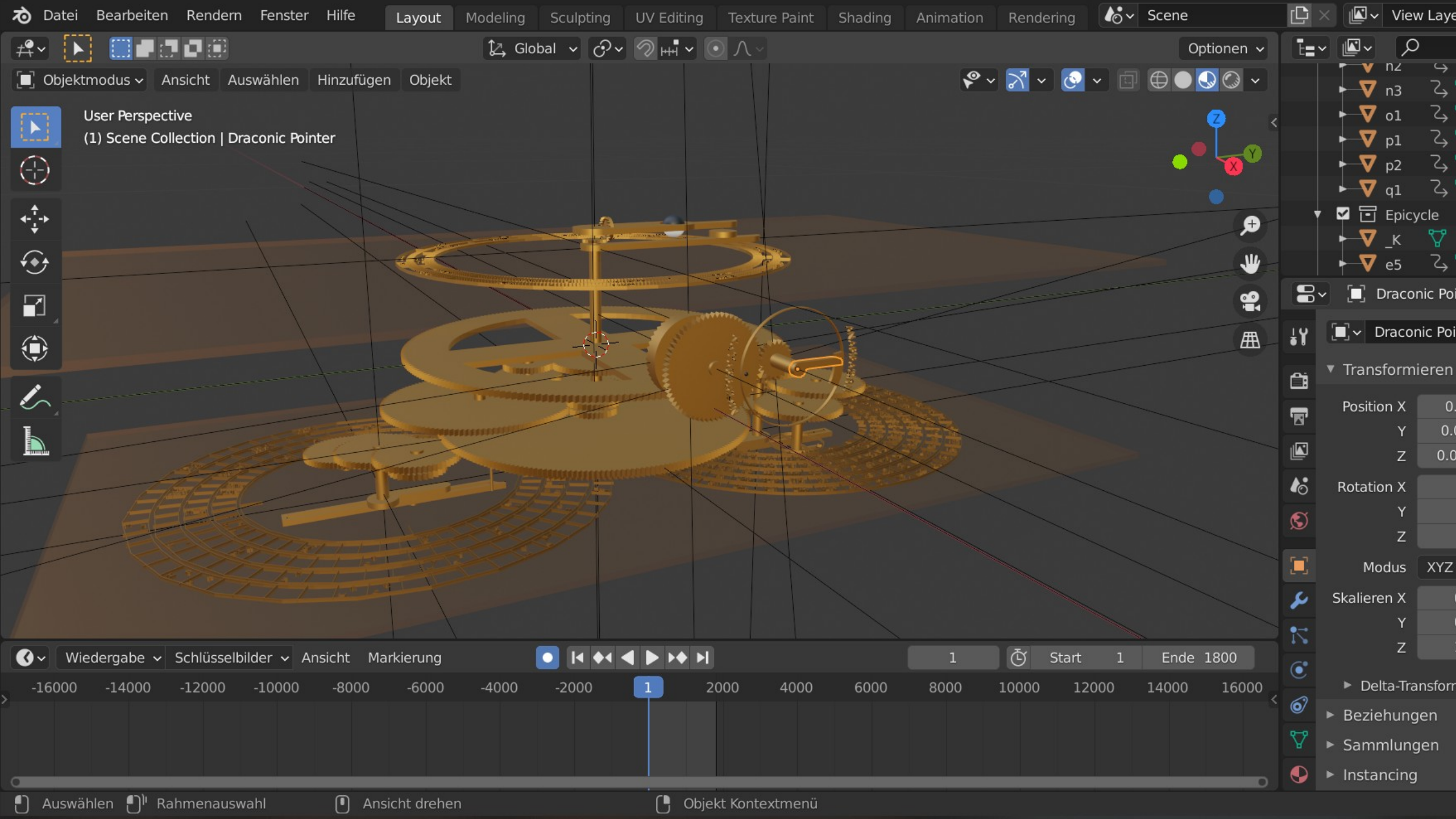
Gears connected
by solid vertical
lines rotate together

Gears connected
by dashed vertical
lines have a pin-
slot connection

Format: Gear name
of teeth

Gears are arranged vertically
based on their layer in the
mechanism





Optionen

Objektmodus Ansicht Auswählen Hinzufügen Objekt



User Perspective
(1) Scene Collection | Draconic Pointer



Outliner

- n2
- n3
- o1
- p1
- p2
- q1
- Epicycle
- _K
- e5

Draconic Po

Draconic Po

Transformieren

Position X 0.0
Y 0.0
Z 0.0

Rotation X
Y
Z

Modus XYZ

Skalieren X
Y
Z

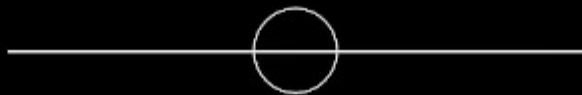
Delta-Transform
Beziehungen
Sammlungen
Instancing

Wiedergabe Schlüsselbilder Ansicht Markierung

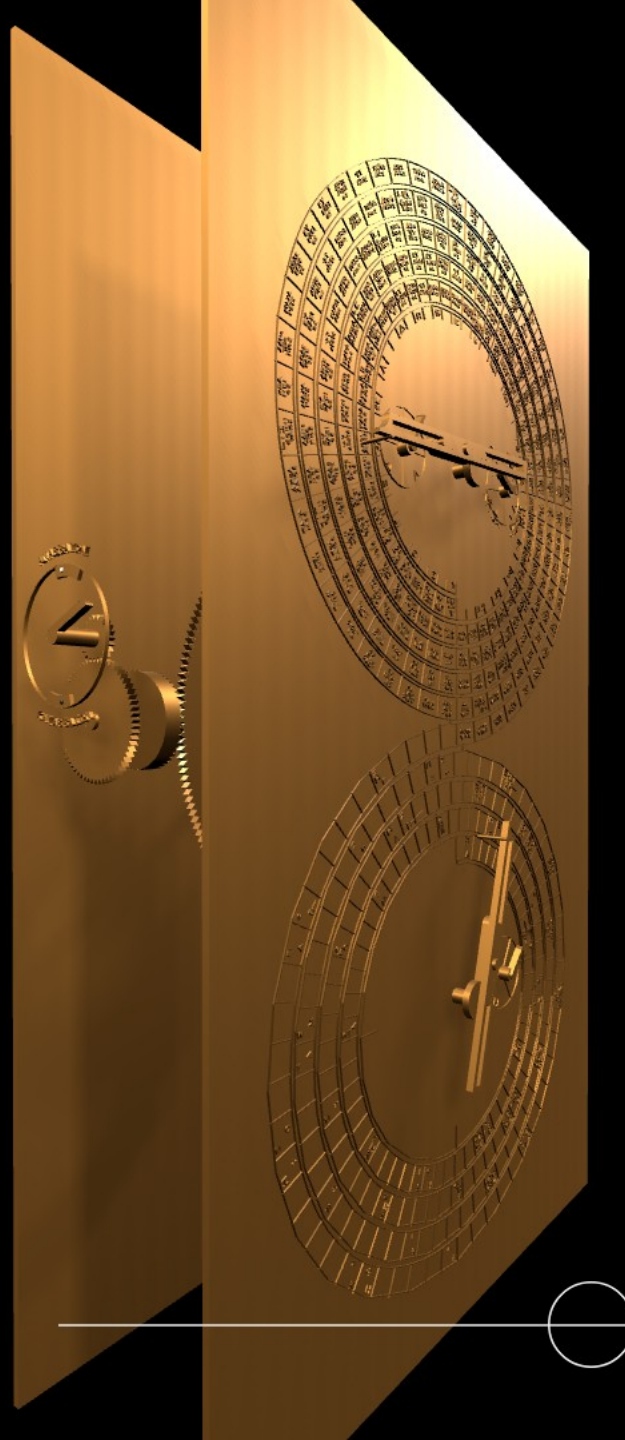
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1 Start 1 Ende 1800

-16000 -14000 -12000 -10000 -8000 -6000 -4000 -2000 1 2000 4000 6000 8000 10000 12000 14000 16000



web vr



realistic
digital
distributable
accessible
interactive
responsive
cost-efficient
maintainable
open data

the
antikythera
mechanism



thomasweibel.ch/antikythera

