



The Moon Machine

Data Visualization
Using Virtual Reality









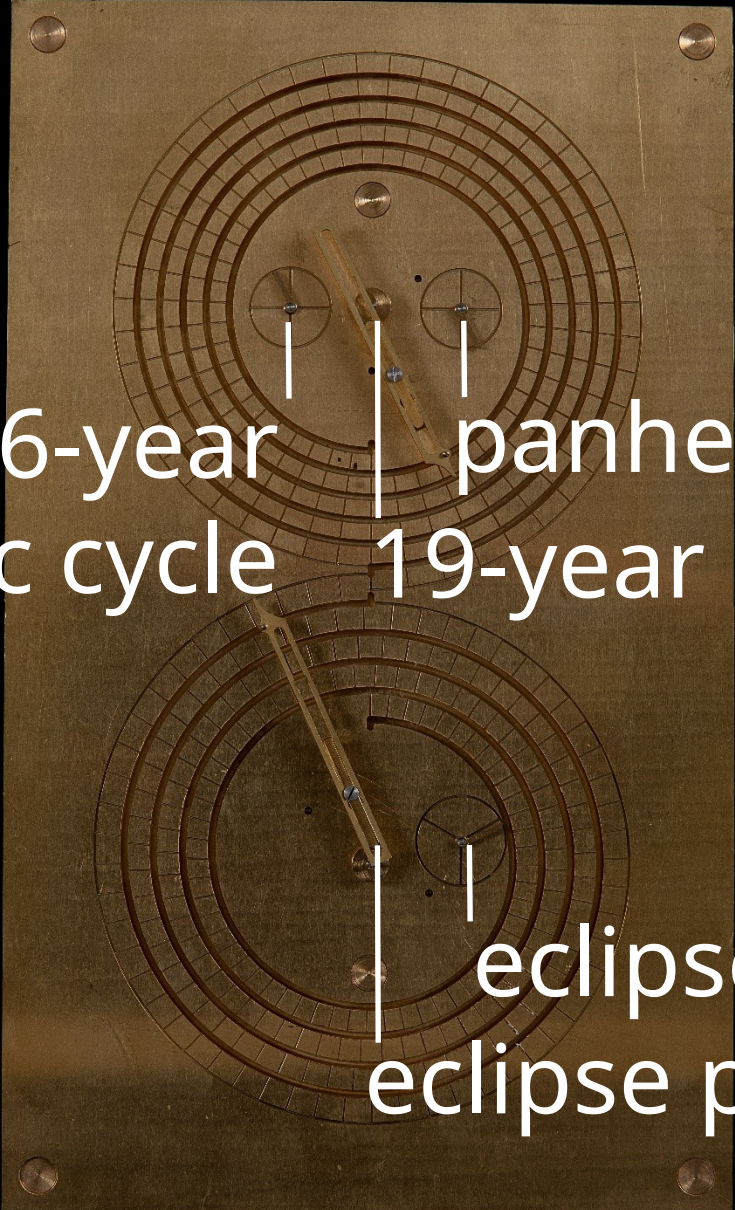




sidereal moon cycle

solar year

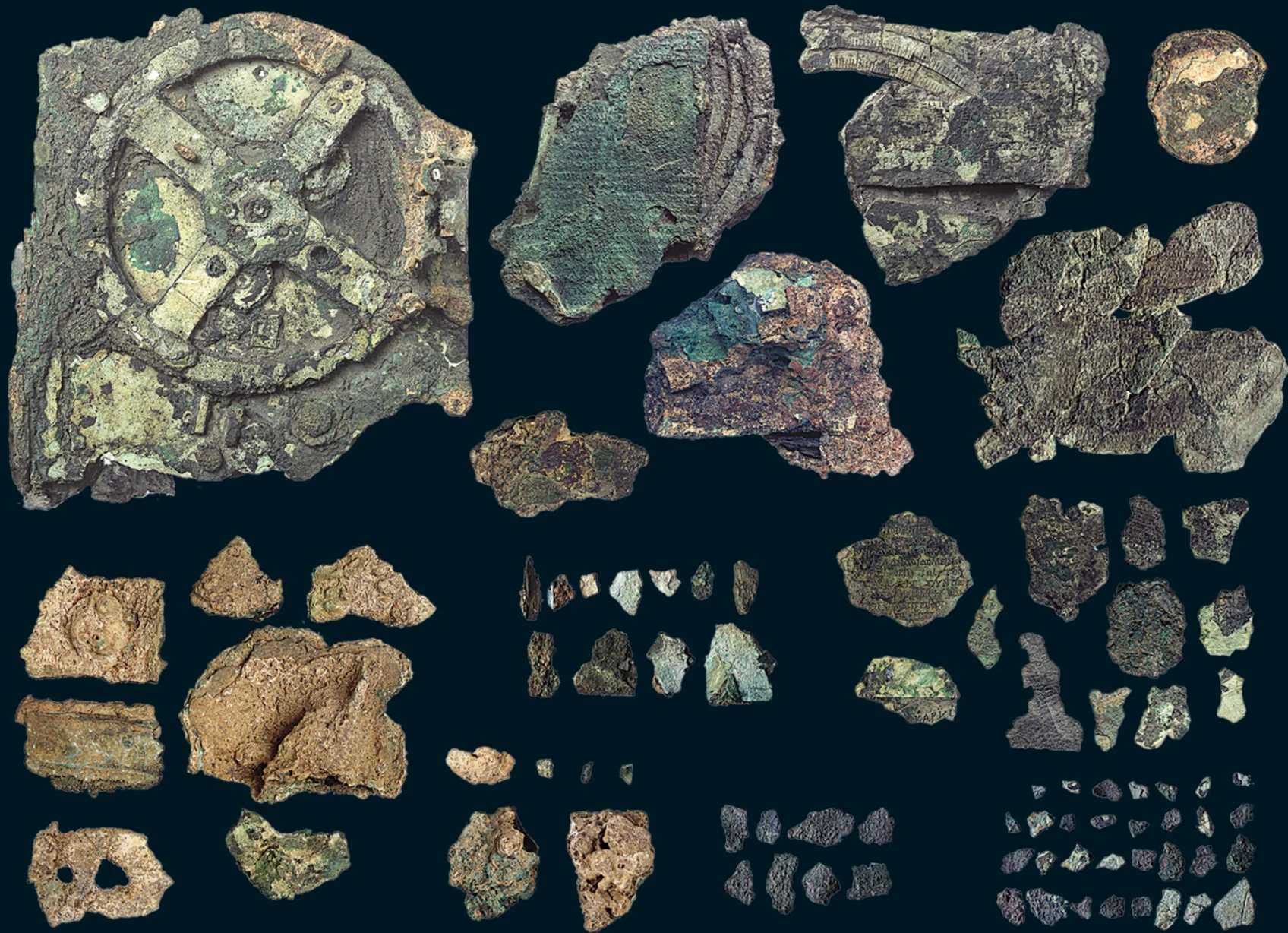
synodic moon cycle (lunar phase)

The image shows the Antikythera mechanism, an ancient Greek analog computer. It consists of a rectangular brass plate with two circular gear trains. The top gear train has 11 concentric rings, and the bottom gear train has 10 concentric rings. A wooden pointer is attached to the top gear train, and another wooden pointer is attached to the bottom gear train. The mechanism is used for predicting astronomical events.

76-year
callippic cycle

panhellenic games
19-year metonic cycle

eclipse time of day
eclipse prediction



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 ...

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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 ...

☆ Speichern Zitiert von: 496 Ähnliche Artikel Alle 28 Versionen Web of Science: 175 »

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 ...

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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 ...

☆ Speichern Zitiert von: 58 Ähnliche Artikel Alle 21 Versionen Web of Science: 1 »

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] fsb.hr

[PDF] sagepub.com

[PDF] shiftleft.com

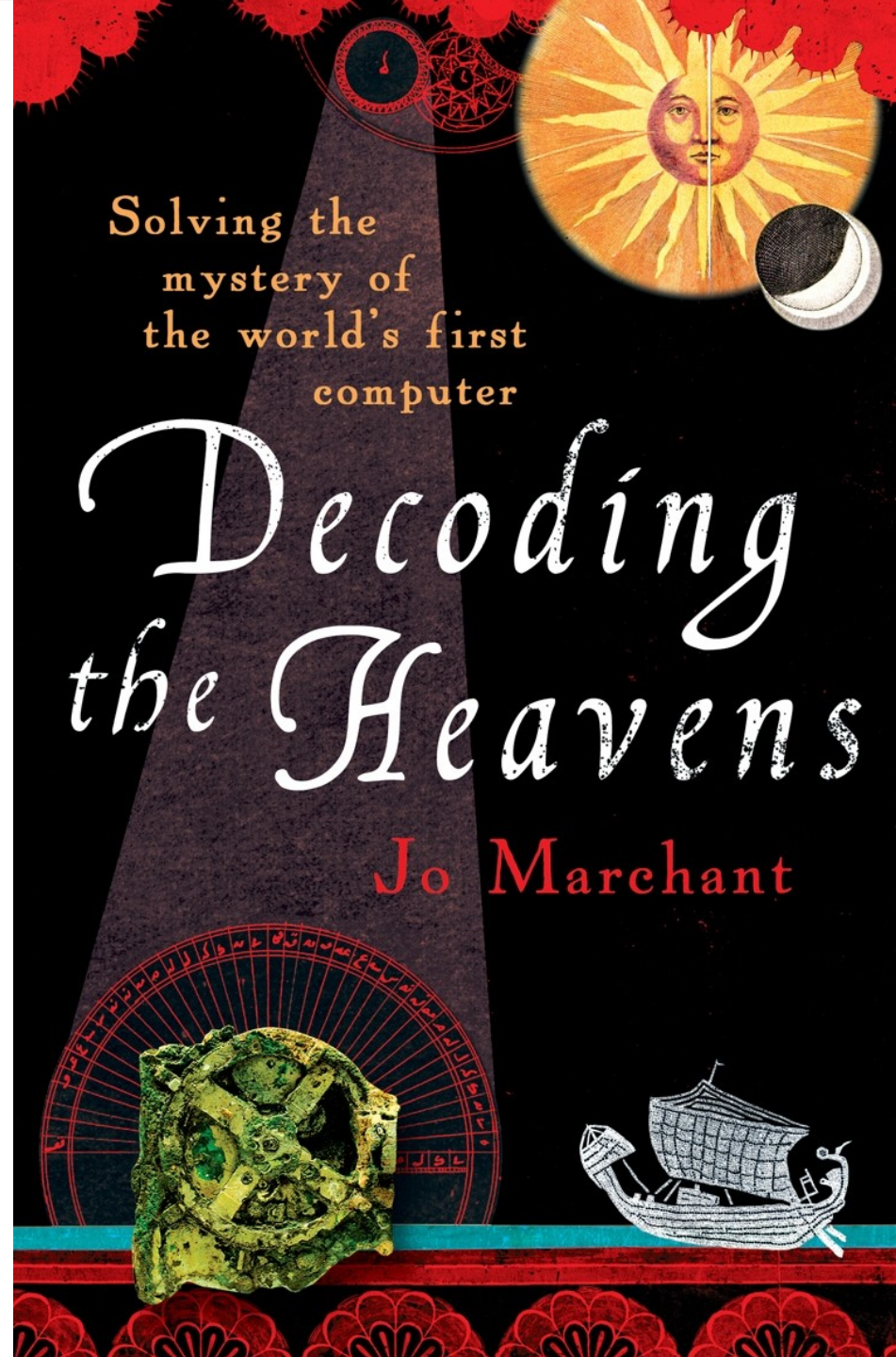
[PDF] jstor.org

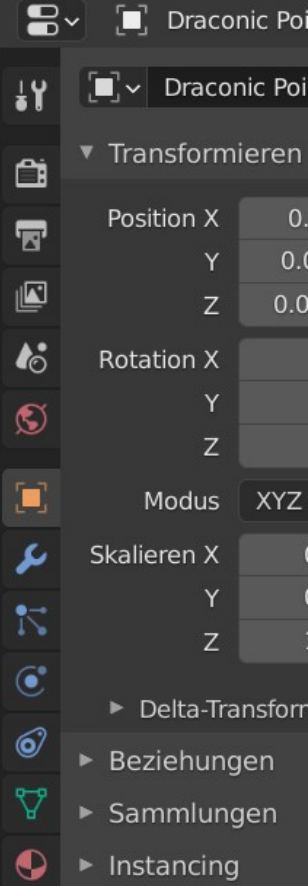
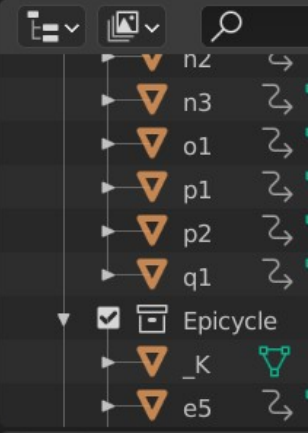
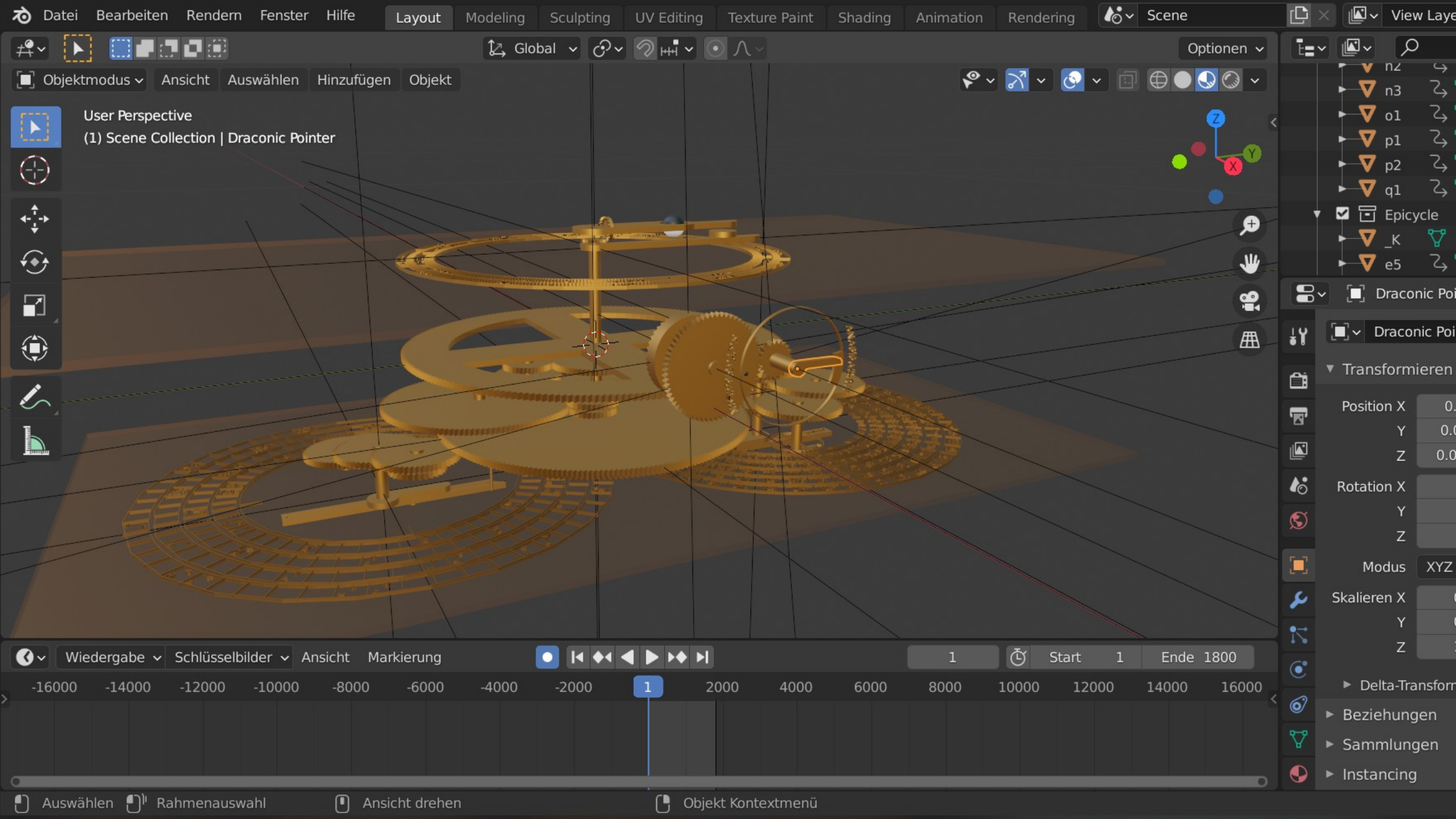
[PDF] nature.com

[PDF] tandfonline.com
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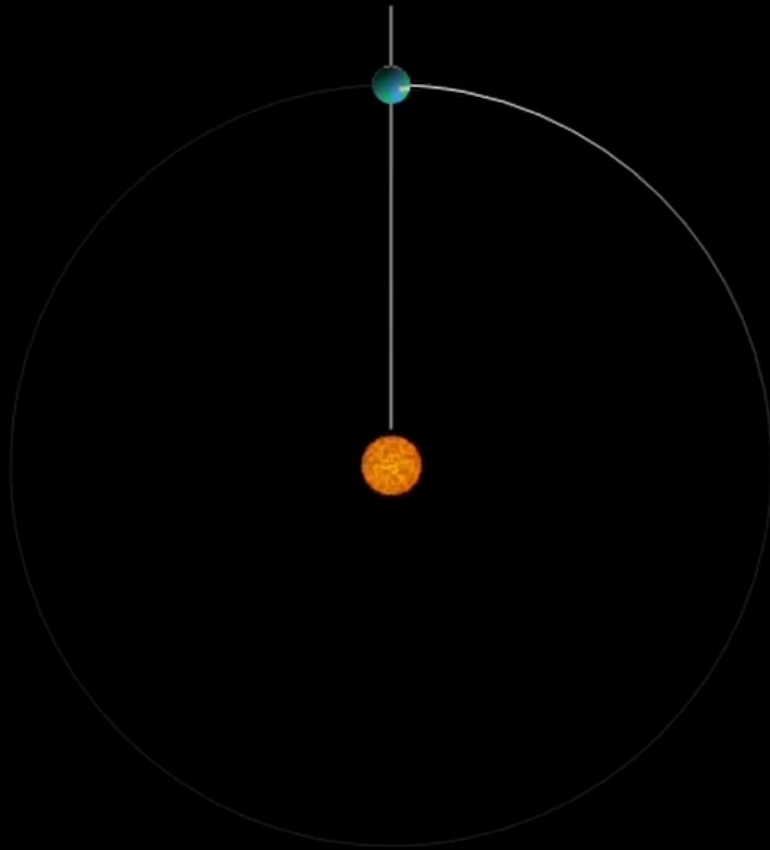
the
antikythera
mechanism



thomasweibel.ch/antikythera

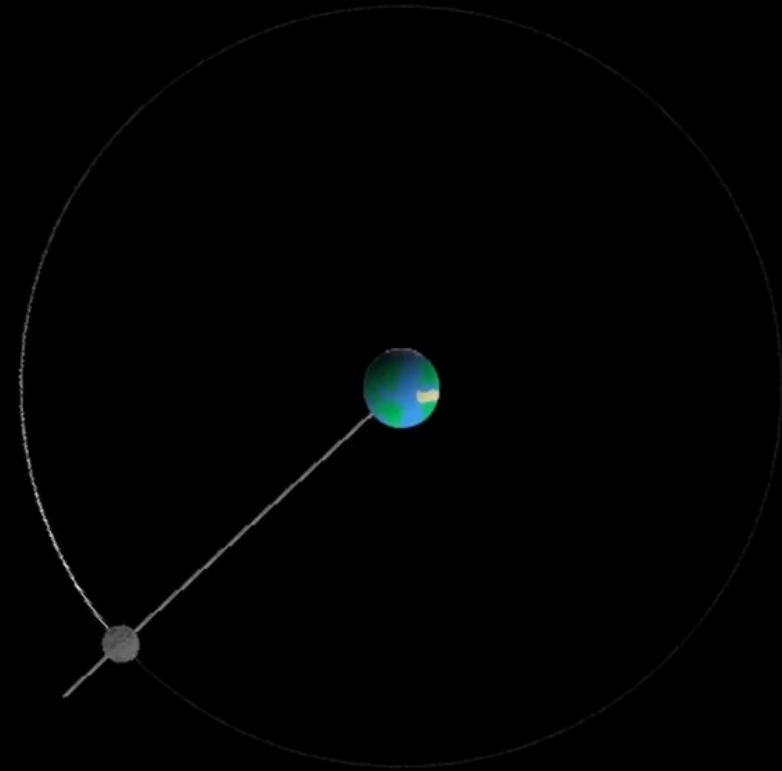






Sun-Earth System

Solar Years: 1.0000



Earth-Moon System

Lunar Months: 13.3682

Days: 365.2425

19 solar years $\approx$
235 synodic cycles





full moon
december 5, 2006

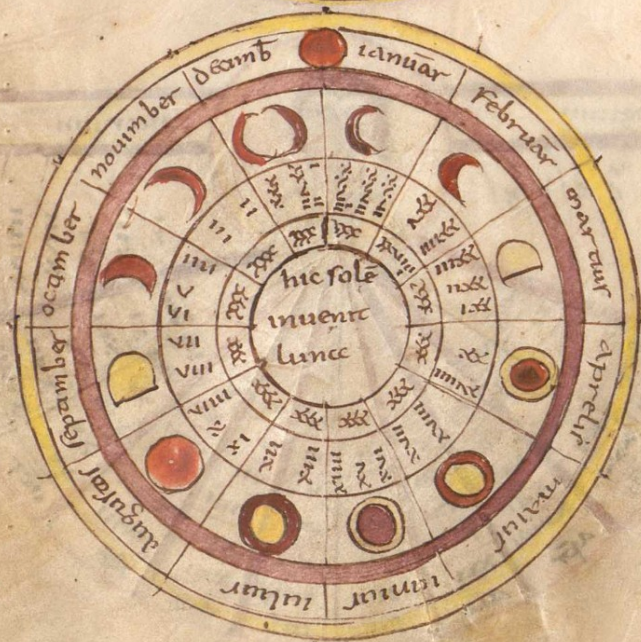
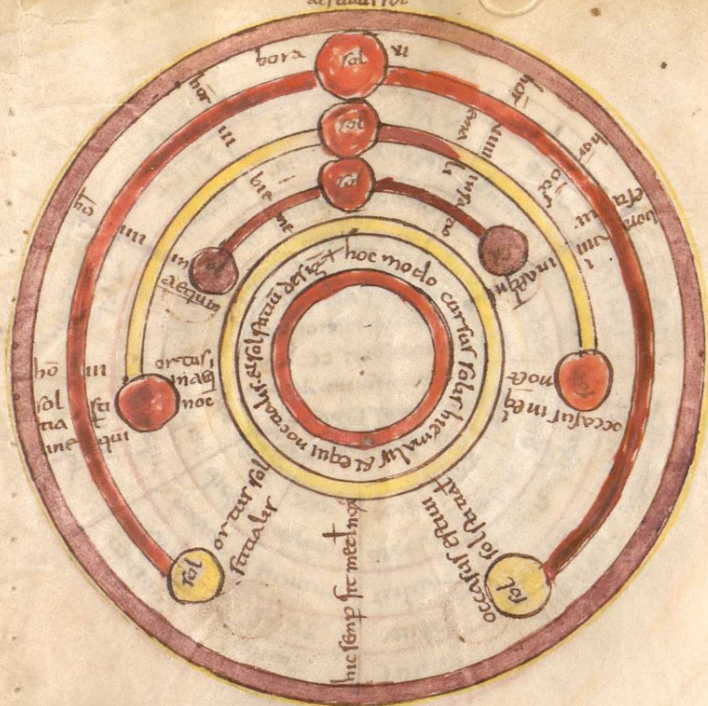
19 years

full moon
december 5, 2025

19 years

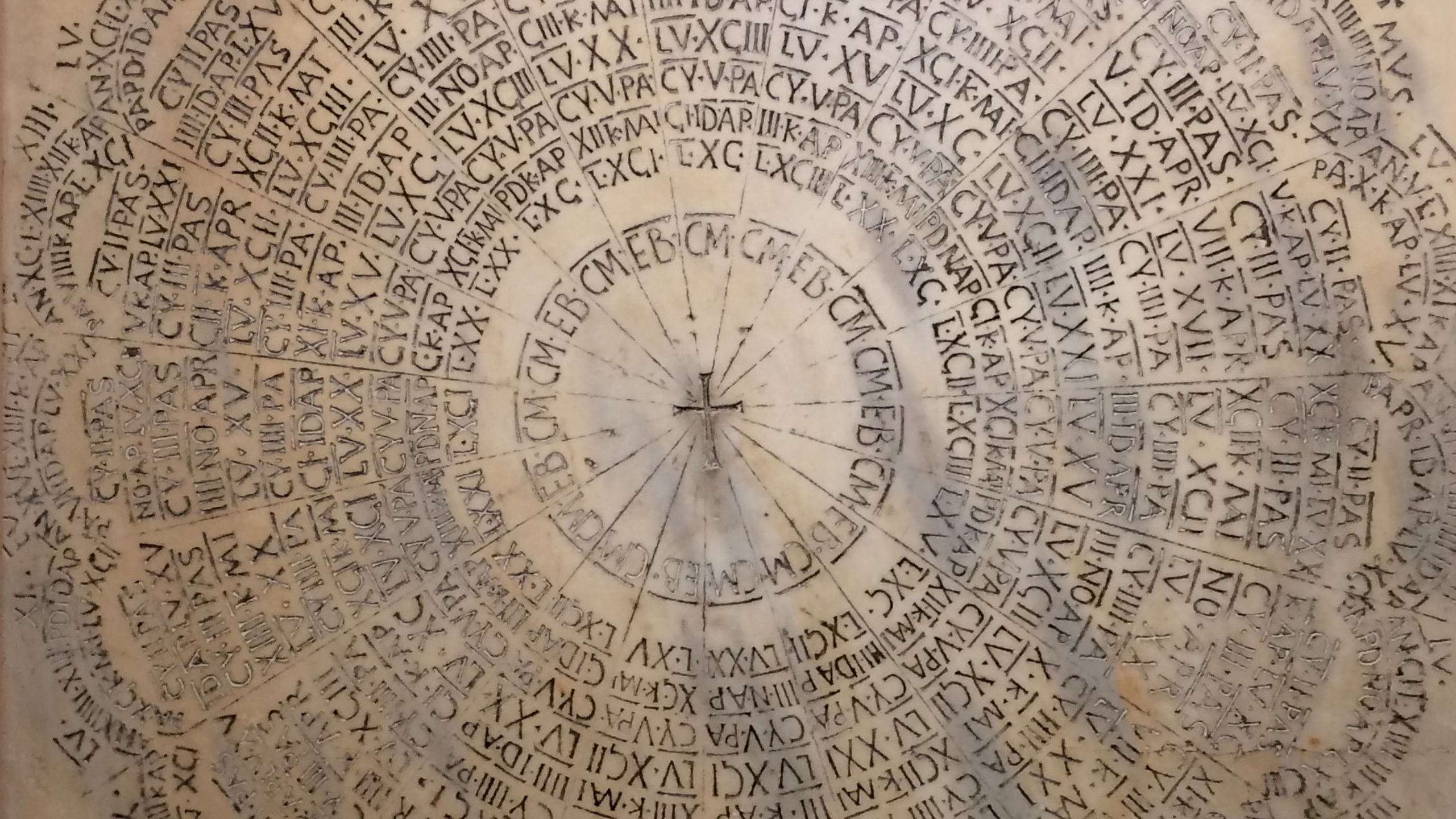
full moon
december 5, 2044

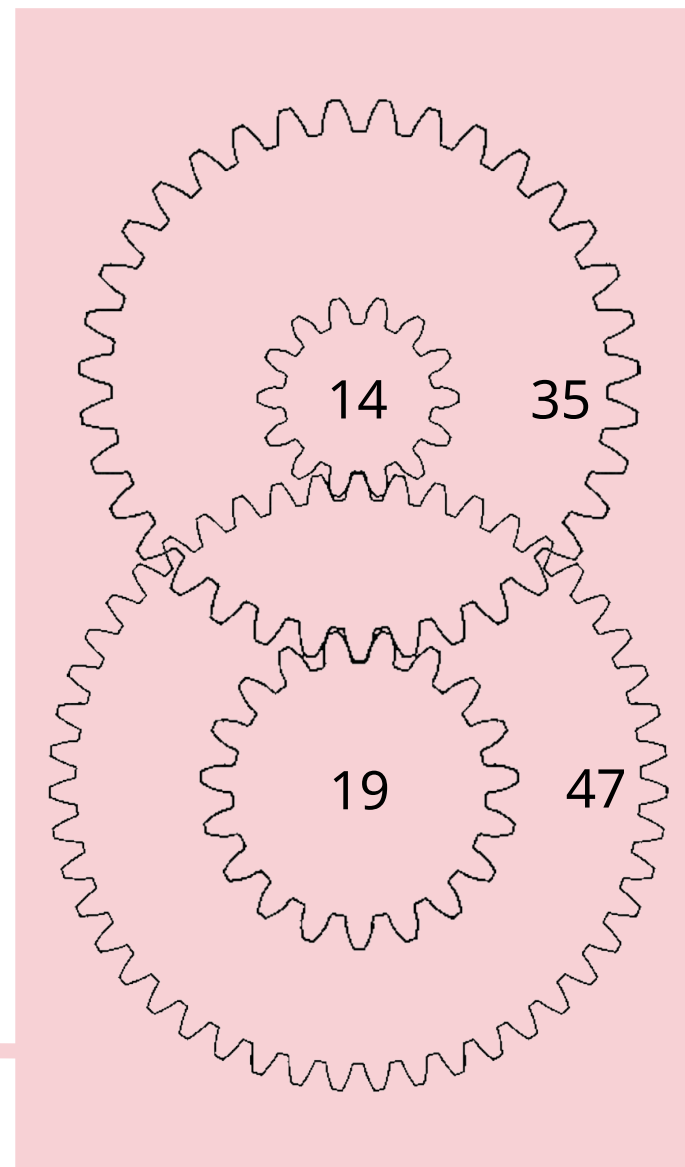
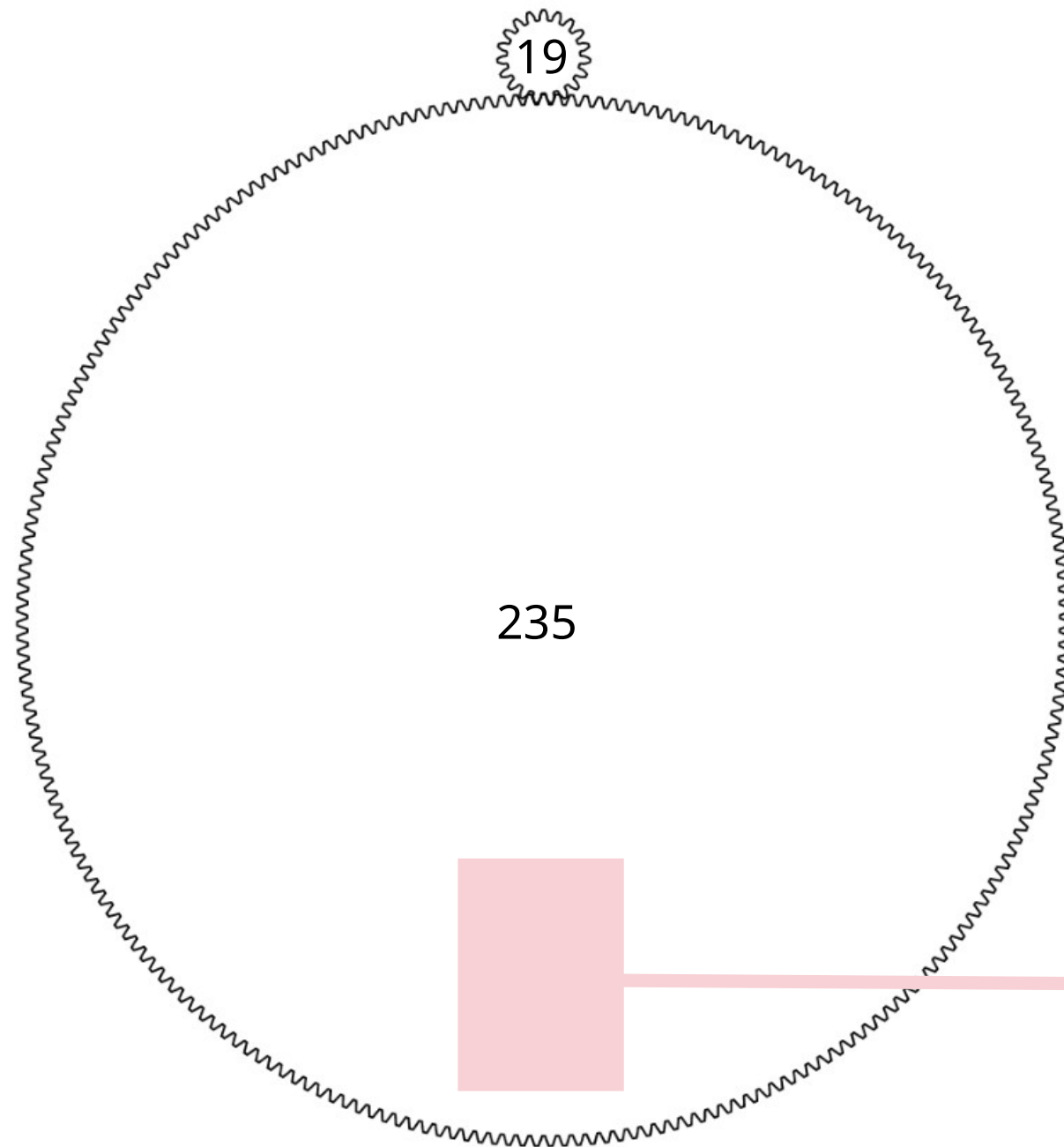




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xx.







meton

virtual mechanical moon
and eclipse calculator



thomasweibel.ch/meton

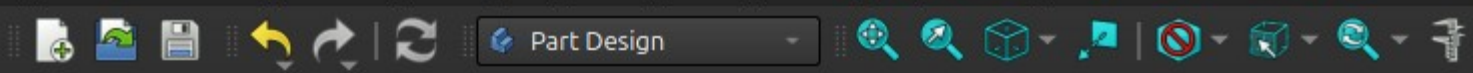


animate



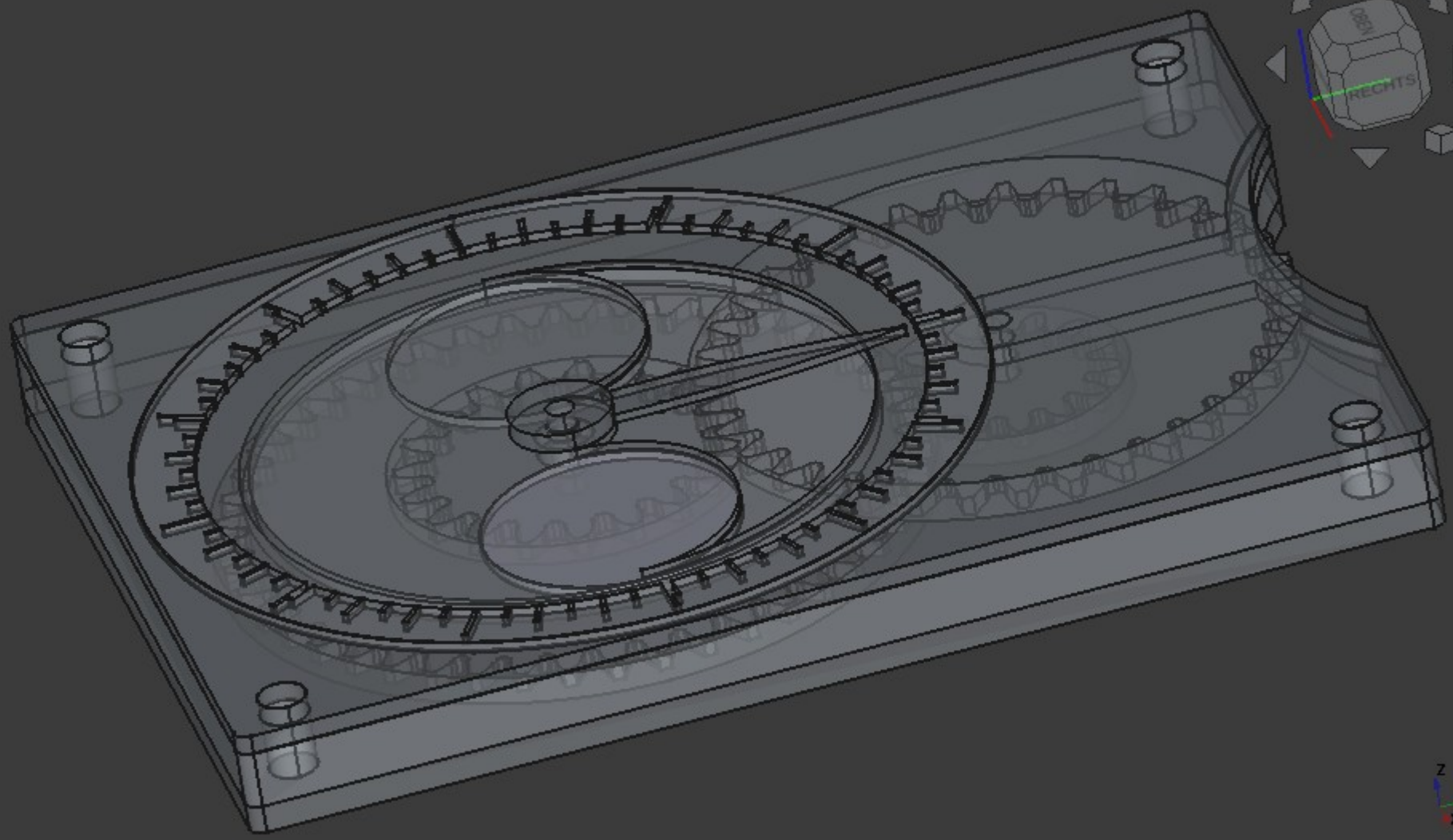
current





Modell Aufgaben

- Modell
- meton47b
 - Cut035
 - Körper024
 - Cut060
 - Fusion
 - Cut065
 - Cut070
 - Cut077
 - Cut078
 - Fusion018
 - Cut079
 - Exploded Slice



Ansicht Daten

meton47b : 1*

Valid, Interner Name:GrExplode_Slice

CAD 160,26 mm x 92,58 mm



visual
digital
low cost
hand-made
self-containing
mobile
interactive
distributable
open tech
open source
open data



machine metaphor: universal ...

... across cultures

... across subjects

... across the ages



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