

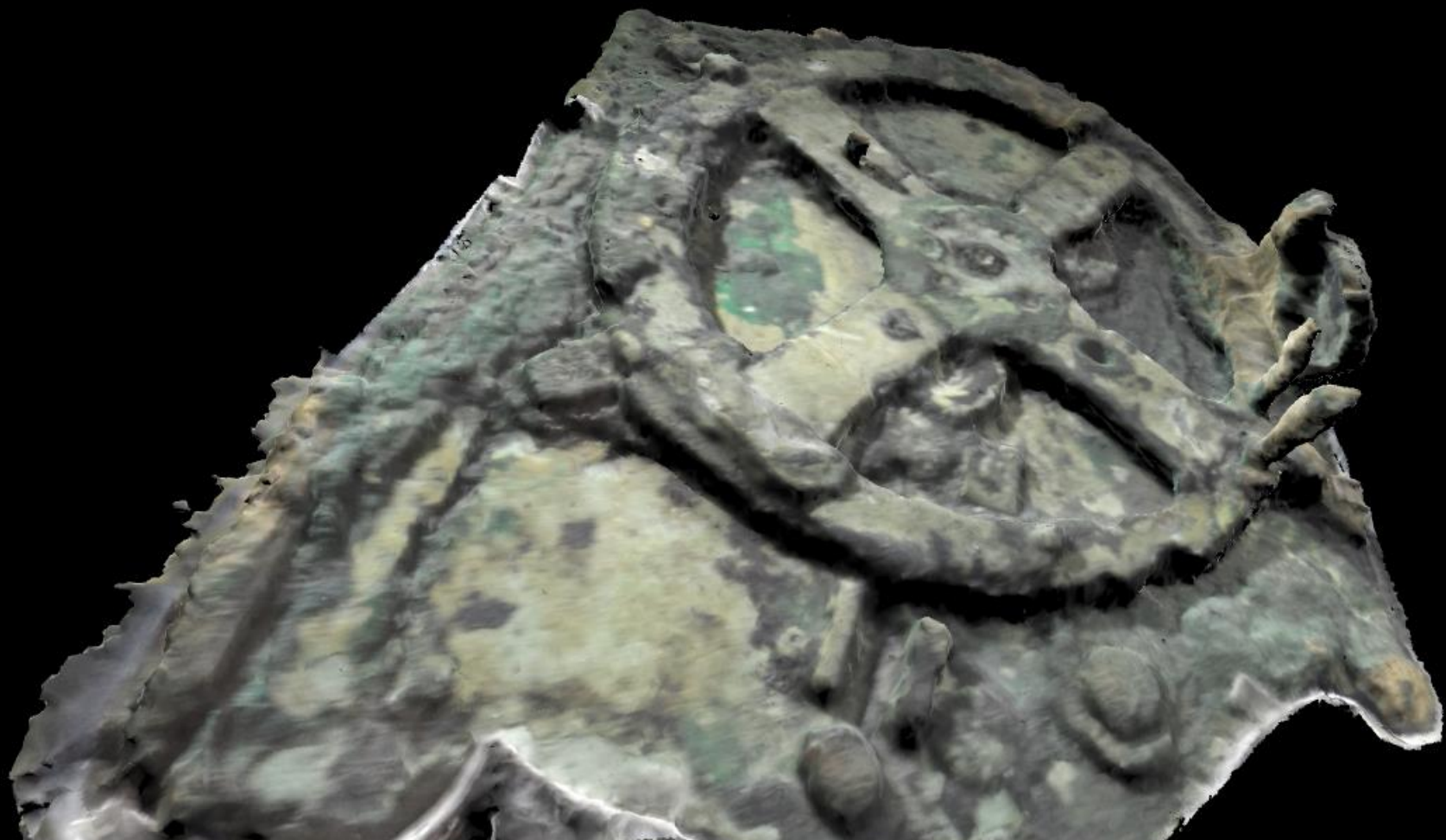


The Antikythera mechanism

Virtual Reality as a
Scientific Visualisation Tool

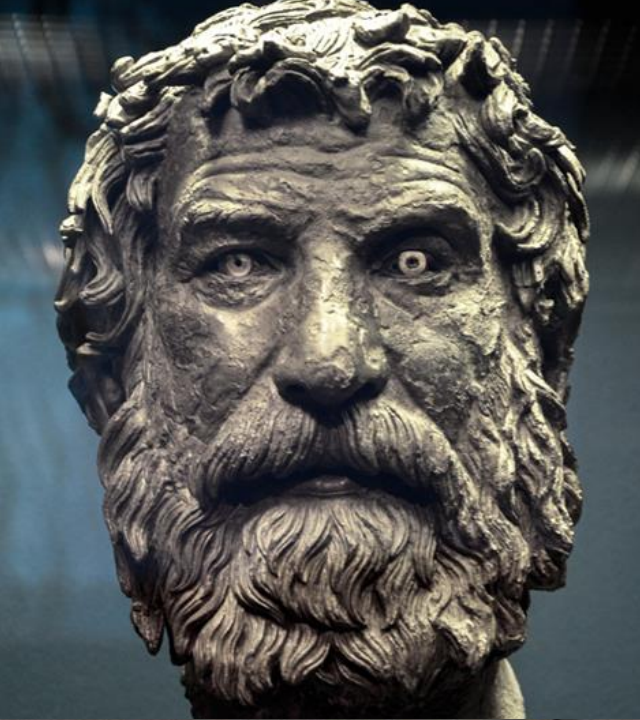


INDIANA JONES











«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 individual days and nights.»















sidereal moon cycle

solar year

draconic moon cycle

synodic moon cycle (lunar phase)



76-year callippic cycle | panhellenic games
19-year metonic cycle

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 ...
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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 ...
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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 ...
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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 ...
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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. ...
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[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 ...
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[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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Full View

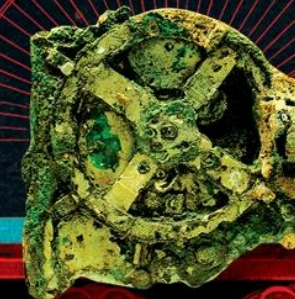
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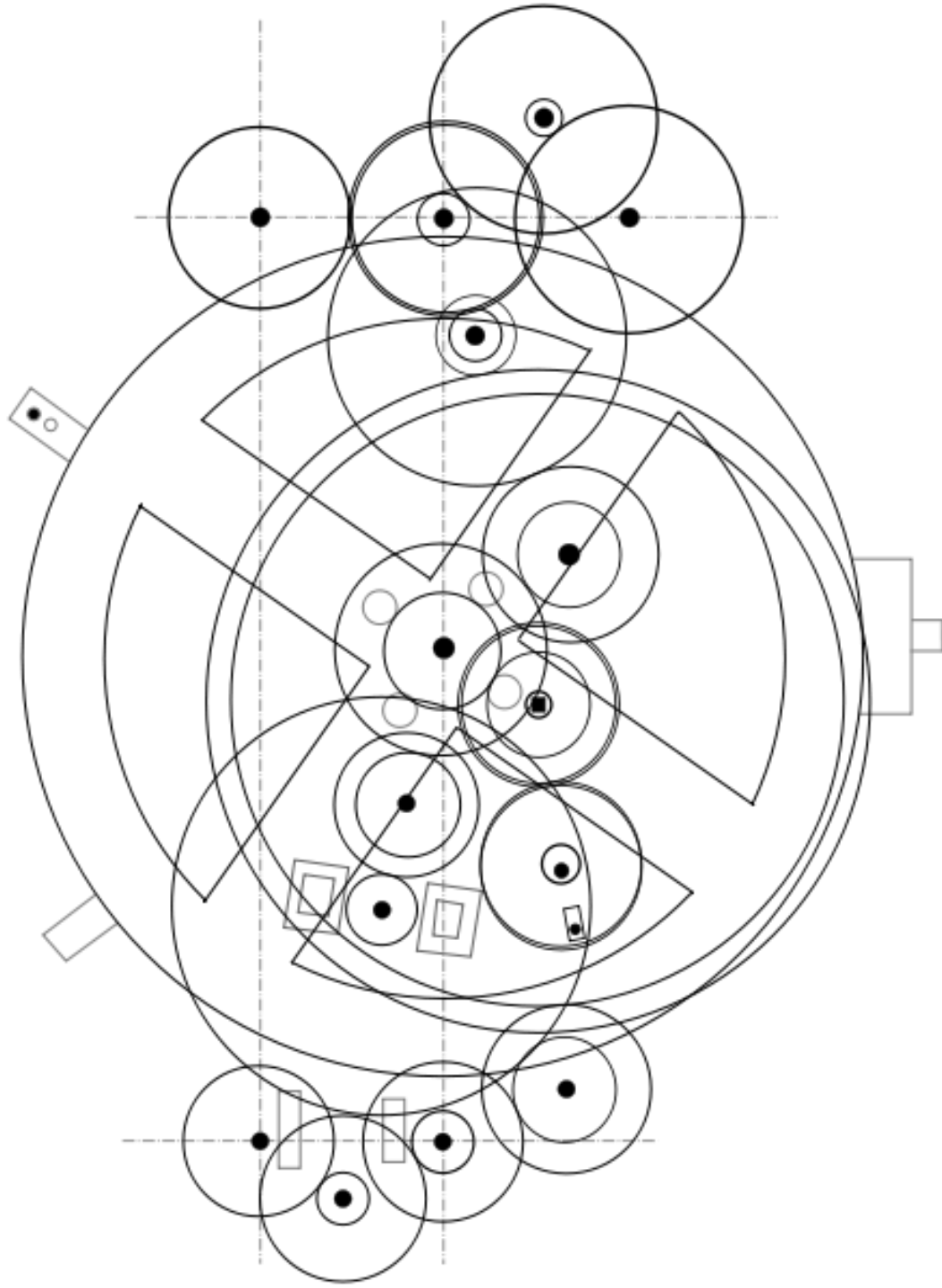
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Solving the
mystery of
the world's first
computer

Decoding the Heavens

Jo Marchant





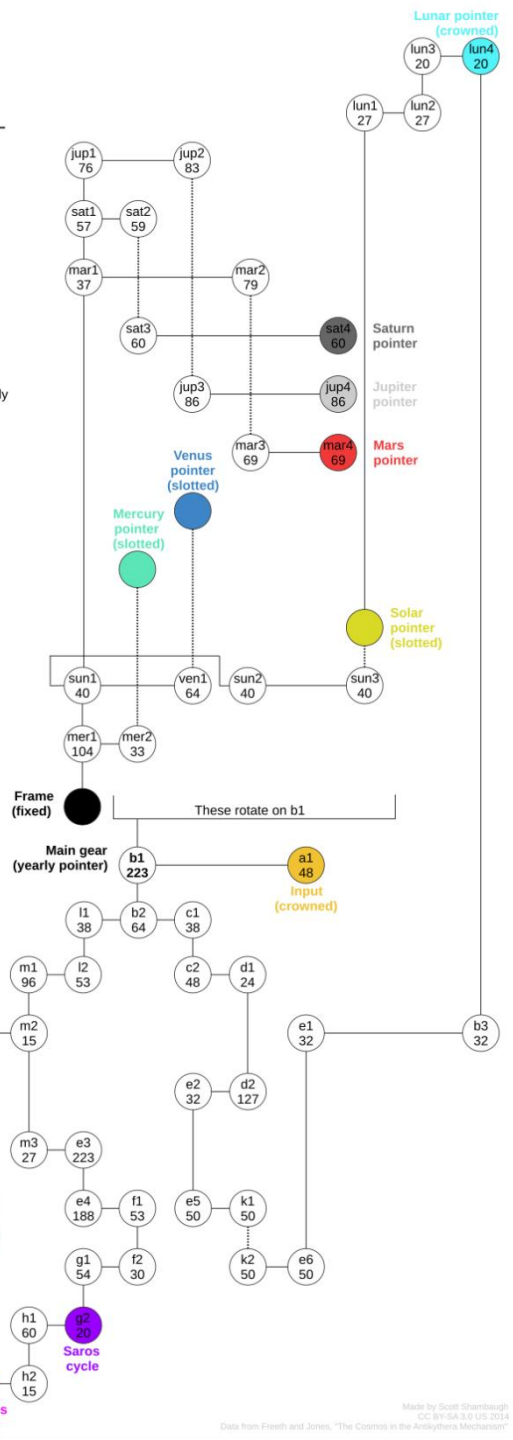
Gears connected by solid horizontal lines are meshed

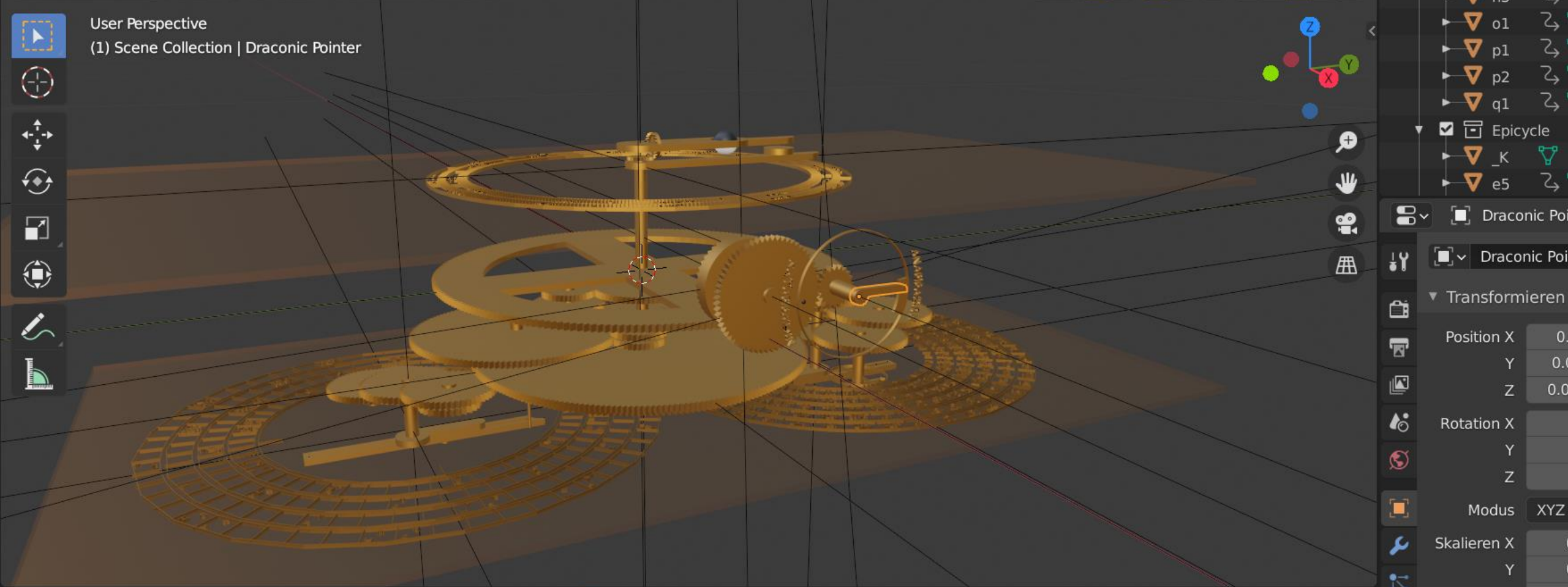
Gears connected by solid vertical lines rotate together

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



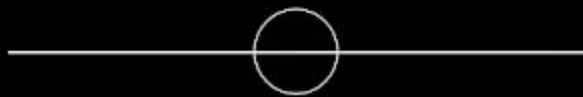


Scene Hierarchy:

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

Draconic Pointer Properties:

- 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



web vr



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



the
antikythera
mechanism



thomasweibel.ch/antikythera

