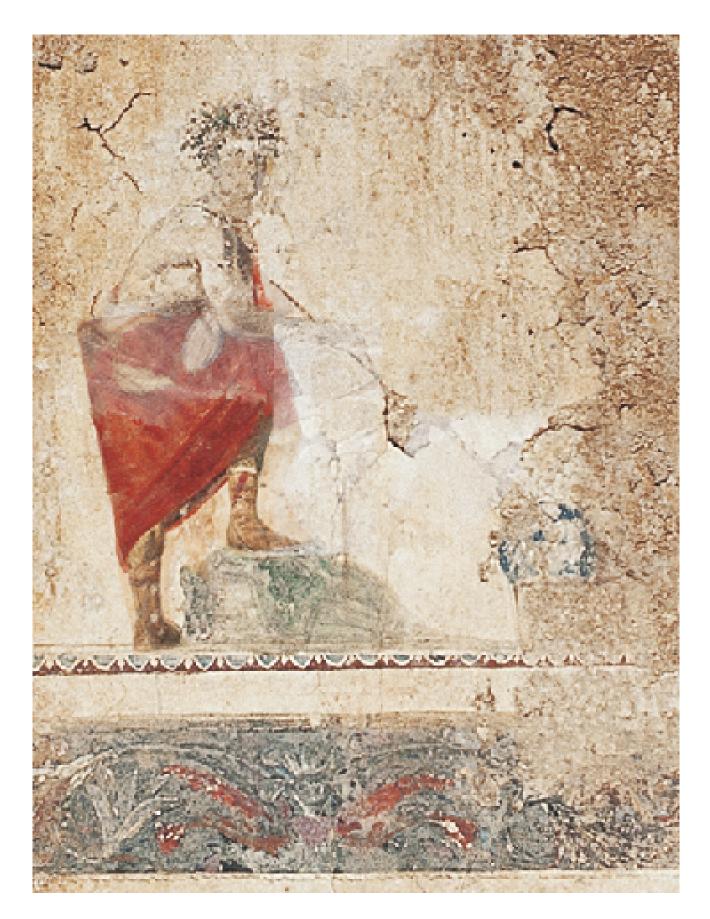


**Frontispiece:** Fitzwilliam Museum, Cambridge, Acc. no. CG 656. A ring of engraved lapis lazuli set in gold, dated to the 16th century. It depicts a bearded philosopher or mathematician sitting before an engraved celestial sphere, compass in hand, looking up at the sun, moon, and stars, which are displayed in gold. This ring was previously considered to be a Roman item, but this dating has been revised by curators at the The Fitzwilliam Museum, which was personally confirmed by Victoria Avery, Keeper of Applied Arts. Photograph © The Fitzwilliam Museum



**Figure 8:** Tomb at Pella, Central Macedonia, Greece, ca. 300 BCE. A fresco belonging to the Ephorate of Antiquities of Pella. It depicts a young philosopher standing on a green knoll, holding a pointer directed towards a blue sphere that rests on a stand. © Ministry of Culture and Sports, Archaeological Resources Fund, Greece.



Figure 8a: The same, in high resolution and with better colors, but the sphere cropped out.



**Figure 9:** Roman mosaic from the Villa of Titus Siminius Stephanus, Pompeii, 1st c. BCE–1st c. CE, now in the Museo Archeologico Nazionale, Naples, inv. 124545. Seven sages, or philosophers, in discussion. The central figure uses a pointer to indicate a solid or armillary sphere. Photograph © Jebulon / Wikimedia Commons.



**Figure 10:** Mosaic depicting an armillary sphere, late 2nd to early 1st century BCE, now in the Area Archeologica e Antiquarium di Solunto, Sicily. Photograph © Elizabeth F. Evans.

## :入前キビャンデル、

Sof 20th con stor of the social states and socia

IZ.

has got provarroule les us o poras aga arty to an a to be & be a othin is not bigeban ath NEW thires eghonor gan rabach chadarban man parther hullor drader out out of part and hold and a hull for year and a of the as Took wat atth took more of the day as her as her as her a as his prach in prach O hos ard arther ar icv H BLU . mees of ebd or work mab arty took in marthe 203 nover rophed ach. when vie gracop more hand ance house hai h ANB ap a thince off opera. Oper a oblog 30 pop ort has h ezzymin hay to a B ap a, Thi is o por ant po por a th of 30 pop. or bai hime, This HOO art & openas. at af aroup was arch low he below rober & op of at a poro 3 a rook gartrate work white per och work how and my prose of and all ( and out has air top har don my my make of the day ai house in when wap application out of the budy ap at the sap to at AEK. ICHT BZA NOA. - 20 6 6 6 6 at i an affriare dath on at 1 a and a the ich ZYNG. i sar attylare desh. Shores sab our mores hay askabet. gi ta ד לונים דט משק לאניור איט דוואו מדטידט דע דוא. ולא ו ורמודט לגו ציא. a abi oh atty hi eie thinch affin eie thine Gol Xohi oh. hai hien ap outhin a tily i oh auch on thin i tily i oh hai h iz apou th וכא מרושיו סאו מיו דמי סמנים מנימי מו ביני ולא צא אם. י סמול סו שי לטו was af a dirto o apo ai a E EZ . TH. JA. To as a sch laso of oly. as apa was they's day my my and a go of go of ar athered a was at the was live le coopi on qoly: 11

lui hlovd or throw by anto he hop rov ropoor row hop ave bad as an ropoor tow hop ave bad as an row yo ata. Granow olyed ou he Naroy lu heop. & anto he hop row do the bad as a south of the second of the second do the second of the second do the second of the second of

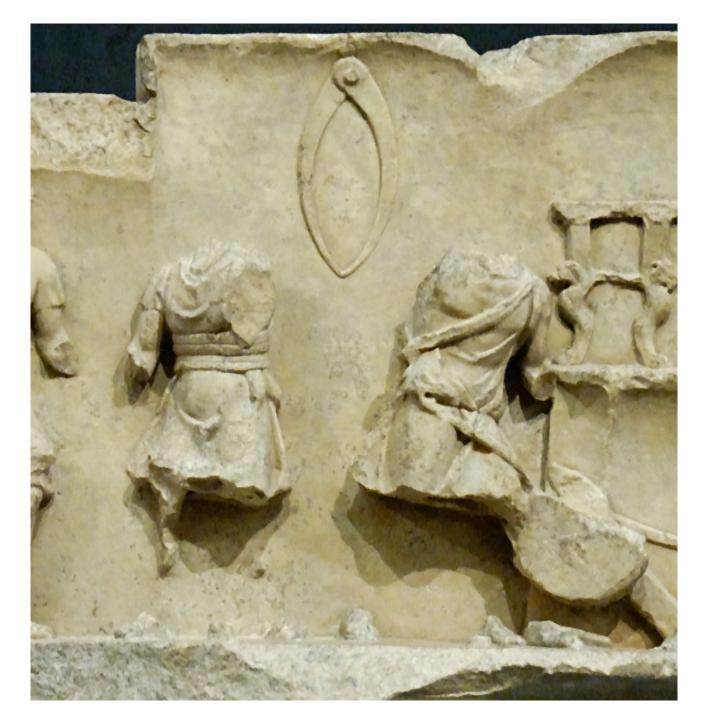
Que of ond a chad at bar in more ore orne of a chad at bar in more ore orne of a chad at bar in more ore

roh L & april oh har dos milron Sobat af 400 pr L BY par 24. Alm Lon Y & more and a harden So ron ve lingren roh and oh 3 gran

**Figure 12:** Vat. gr. 204, 15v; the beginning of *Sph.* II.14 (I $\Delta$  in the margin, in red ink), with the diagram for *Sph.* II.13 (labelled I $\Gamma$  in black ink) following the text of that proposition, as usual. © Biblioteca Apostolica Vaticana.



Figure 12: The Arden Hyperides papyrus, P.Lond.Lit. 132, ca. 100 CE. © The Trustees of the British Museum.



**Figure 13:** Detail of a caliper, or dividers, in a battered relief of the 1st century CE depicting a carpenter's workshop, now in the Musei Capitolini, Rome, MC2743. Photograph © Marie-Lan Nguyen / Wikimedia Commons.