upper limit of 30 or even $40.^{42}$ Arrian uses the same phrase in the *Cynegeticus*, written in Athens post *c*. 140, when he was *c*. $55+.^{43}$ It is stretching plausibility to have Arrian claim that the *Anabasis* has been his all from youth when still in his $30s.^{44}$ Arrian's tremendous self-confidence both about his worldly status and the supreme literary merit of the *Anabasis*,⁴⁵ which will assure his place in the forefront of Greek literature, also points to a relatively late dating.

A final, tantalising, item. Appian Praef. 15.62 runs: τίς δὲ ῶν ταῦτα συνέγραψα, πολλοὶ μὲν ἴσασι καὶ αὐτὸς προέφηνα, σαφέστερον δ' εἰπεῖν, ᾿Αππιανὸς ᾿Αλεξανδρεύς, ἐς τὰ πρῶτα ἦκων ἐν τῇ πατρίδι, καὶ δίκαις ἐν Ῥώμῃ συναγορεύσας ἐπὶ τῶν βασιλέων, μέχρι με σφῶν ἐπιτροπεύειν ἠξίωσαν. καὶ εἴ τῷ σπουδὴ καὶ τὰ λοιπὰ μαθεῖν, ἔστι μοι καὶ περὶ τούτου συγγραφή.

If there is a direct relationship between this and our passage,⁴⁶ Appian must be prior, with Arrian delivering a stinging riposte: whereas Appian vaingloriously celebrated his name, country, $\tau \dot{a} \pi \rho \hat{\omega} \tau a \epsilon v \tau \hat{\eta} \pi a \tau \rho (\delta i,$ and his Roman achievements, and even referred the interested reader to his autobiography for further information, Arrian pointedly declines to record his name, famous though it is, country, family, or local offices, suppresses all mention of his Roman career, emphasises that he will be judged by his work, not his social status, and claims $\tau \dot{\alpha} \pi \rho \hat{\omega} \tau a$ not $\vec{\epsilon} v \tau \hat{\eta} \pi a \tau \rho (\delta \iota b u t)$ $\epsilon v \tau \hat{\eta} \phi \omega v \hat{\eta} \tau \hat{\eta} E \lambda \lambda \dot{\alpha} \delta \iota$. Such literary polemic would be in character, and would give the Anabasis a terminus post of the late 150s or early 160s.47 The difficulty is that other parallels between Arrian and Appian are usually thought to show the priority of the Anabasis.48 Arrian's language in the second preface can also be adequately explained internally, without reference to Appian. On the other hand, would Appian have written as he did, had the Anabasis already been published? I suspect that Arrian is indeed sniping at Appian. Nevertheless, the safe conclusion is non liquet.

 $\dot{a}\pi\dot{o}$ véou and the general tone of the passage remain. In my opinion they do support a relatively late dating.

J. L. MOLES University College of North Wales, Bangor

42 30: Xen. Mem. i 2.35; 40: Pl. Leg. 951e, cf. 666b.

⁴³ Cyn. 1.4 (n. 38); 140 and 55 are round figures; on the chronology of Arrian's life see now Syme (n. 13) 181-211.

⁴⁴ Bosworth 1972, 168 n. 1 (especially as $\dot{a}\pi\dot{o}\nu\dot{e}ov$ does not mean 'right from *childhood*').

⁴⁵ Bosworth's contention (1972, 168) that it 'was only a *parergon*, one of the works he undertook for practice in handling non-contemporary material' is wholly untenable.

⁴⁶ As Mr E. L. Bowie suggests to me.

⁴⁷ Literary polemic: general discussion in Bosworth 1980, 12; date of Appian's *Emphylia*: E. Gabba, *Appiani Bellorum Civilium Liber Primus* (Firenze 1958) x-xi; Bosworth 1972, 178 (c. 161-3); Bowie prefers an earlier date.

⁴⁸ Cf. Bosworth 1972, 176 ff. (Bowie disagrees).

The new musical fragment from Epidaurus

On July 17, 1977 what appears to be the most recently found ancient Greek musical fragment was unearthed some twenty-five meters northeast of the palaestra at Epidaurus. Carved on red limestone in the third century AD, the inscription consists of eleven fragmentary hexameters from a hymn to Apollo and other divine offspring, only the first line of which seems to contain suprascript musical notation. M. Mitsos published the inscription three years later without musicological analysis,¹ and S. Sepheriades then attempted a preliminary analysis at the 1982 Eighth International Greek and Latin Epigraphical Congress.² The present paper explores in greater detail the purported music of this brief, enigmatic inscription in the hope of furthering (but certainly not completing) our understanding of this, a possible fourth ancient Greek musical fragment on stone.³

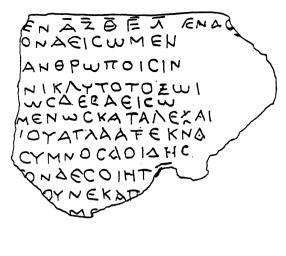
Mitsos (214-15) reported that the first line must contain seven musical symbols each with a short horizontal line above it. While he may well be correct that these seven letters represent musical notes, it would not be the short horizontal lines above each that would help us identify the letters as musical notations. The musical notations in the two Delphic hymns, which like this hymn are inscribed on stone, have no suprascript horizontal lines. The Seikilos inscription does have suprascript lines over seven of its musical symbols, but these are rhythmical disemes and trisemes which designate rhythmical elongation and do not in themselves designate the underlying letters as musical notation. The horizontal lines in the Epidaurus fragment serve a similar rhythmical purpose; they occur over long syllables only. On the musical papyri the most common loci for these frequently conflicting disemes are above melismata (PBerolin 6870.2-4, 6-8, 10-12; and Seikilos 7-9 and 11) or individual long syllables (PMich 2958), but they never appear above every syllable in any previously published fragment. This fragment's meter is dactylic hexameter, so the horizontal lines, that is, rhythmical disemes, signify the individual long notes over the vowels α , $\epsilon \iota$, ω , and ϵ in ἀείσωμεν.

Mitsos reported similar horizontal lines over the two musical symbols EN which precede those over $\dot{a}\epsilon i\sigma\omega\mu\epsilon\nu$, but these are not at all apparent on his photograph. If there were in fact disemes above the musical symbols for this textual syllable $-o\nu$, then either the EN were to be sung to each of two short syllables forming the metrical equivalent of one long, or they were to be sung as a melisma over the short textual syllable $-o\nu$. Instances of melismata over short syllables do occur but are rare, e.g. over the initial syllable of $\dot{\rho}o\theta(\omega\nu$ in POxy 1786.3b and the ultima of $\delta\epsilon\hat{\nu}\rho o$ in PMich 2958.9. I would prefer to think that Mitsos' conjectured $\theta\epsilon\delta\nu$ is correct here. The proximity of the

¹ Markellos Mitsos, 'Γερὸς ὕμνος ἐξ 'Ασκληπιείου Ἐπιδαύρου', ArchEph 1980, 212–16. Mitsos (212) gives a physical description of the stone (15 × 13 cm at its greatest height and width) and the remaining text with verbal parallels. He also offers supplements of the text of lines 2 and 4–8. That at line 4, 'Απόλλω]νι κλυτοτόξω certainly has Homeric precedent (Od. xxi 267); cf. Bacchyl. 1.37. His supplement for lines 7 and 8 needlessly derive from a Solonian elegy (13.1–2 West). An equally appropriate supplement might be 'Ασκληπ]ιοῦ ἀγλαὰ τέκνα. Precedent for invoking offspring of Asclepius can be found in the anonymous Paean Erythraeus (4th cent. BC) and the Paean ad Urbem Dium Repertus (c. 2nd cent. AD). For other testimonia see L. Edelstein, Asclepius i 125, 282, 366, 592, 592a.

Edelstein, Asclepius i 125, 282, 366, 592, 592a. ² Stelios Sepheriades, 'Ίερος υμνος έξ 'Ασκληπιείου Ἐπιδαύρου', 'Ανακοινώσεις, Eighth International Congress on Greek and Latin Epigraphy (1982) 156–9.

³ The other three are the two Delphic inscriptions and the Seikilos epitaph. We now have over forty authentic published fragments of Greek music.



2	[-	_	_	_	_	_	_	— — θε]òν ἀείσωμεν
3	_	_	_	-	_	_	_	$ \dot{a}v \theta \rho \dot{\omega} \pi o i \sigma i v$
4	[-]	_	_	_	_	_	—	'Απόλλων]νι κλυτοτόξω
5	Ì	_	_	-	_	_	_	θεοπρεπ]ώς δε σ' ἀείσω
6	Ì-	_	_		_	_	_	– ἐπιστα]μένως καταλέξαι.
7	Ì-	_	_		_	_	_	
8	Ì-	_	_	_	_	_	~	
9	Ì–	_	_		_	_	_	ἄφθι(;)]τον δέ σοι ήτ[ορ]
10	_	_	_	_	_	_	_	ἄφθι(;)]τον δέ σοι ητ[ορ] ούνεκα π[]

FIG. 1 The Epidaurus Fragment (courtesy M. Mitsos)

musical *epsilon* to the musical *nu* indicates that a vowel immediately preceded the textual *omicron*.

I have hesitated to label these seven letters in the Epidaurus fragment positively as musical notations. One of the major factors determining my hesitancy is the careless positioning of the alleged musical letters. The person responsible for inscribing the musical notation above the text did not always place a musical symbol directly above, or uniformly above and to the right of, the appropriate syllable. This would be the correct procedure as found in the Seikilos inscription and the two Delphic hymns.⁴ In the only surviving fully notated word, $d\epsilon i\sigma\omega\mu\epsilon\nu$, what appears to be a musical theta has then been erroneously positioned superior to the textual omega even though it most likely belongs as the second note for the diphthong $-\epsilon_i$; and because of the lavish spacing between the musical theta and epsilon, the final lambda has been moved to the right of its proper location.

⁴ And the papyri, all of which are reasonably consistent. The musical notations of *PMich* 2958 (2nd cent. AD) occur directly over the syllable or, at word-end, above the space between that and the next word, e.g. lines 10 and 11. See O. M. Pearl and R. P. Winnington-Ingram, 'A Michigan papyrus with musical notation', *JEA* li (1965) 179–95. Even in this uncustomary arrangement there is great consistency. A similar pattern can be found in *PBerolin* 6870, a photograph of which is published in W. Schubart, 'Ein griechischer Papyrus mit Noten', *SB Berlin* xxxvi (1918) 763–68.

Other interpretations could be entertained. The musical zeta could represent the one note to which the diphthong is to be sung, and theta and epsilon would then belong to the textual omega.5 Such a variant interpretation can exist only because the person who inscribed the music apparently did not undersand what he was inscribing or how to inscribe it. The identification of the pitch notes used in the inscription will show that still another mistake seems to have been made in the copying, and this confirms the suspicion that the stone cutter did not understand the proper positioning of the notes. For the present, let us assume that the first syllable in $d\epsilon i \sigma \omega \mu \epsilon \nu$ is sung to the musical *alpha*, that the textual epsilon is sung to the musical zeta, the textual iota to the musical theta, the textual $-\omega$ to the musical epsilon, and the textual $-\mu\epsilon\nu$ to the musical lambda. The disemes above each of these notes then signify individual long chronoi of which there are four (including the diphthong which has two disemes).6

The pitch notes that these musical letters represent at first elude accurate identification. There was an error in copying them, and it must be remembered that the music which accompanied a word such as deiowher could have been irregular for the purpose of word coloring.⁷ At least the 'text' of the musical notations cannot be correct as is; ancient music theory cannot account for what is taking place musically. According to the Alypian tables, the symbols A, Z, Θ, E , and Λ would ascend in scalar order as $1-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$. This is a a theoretical diatonic impossibility since there cannot be three consecutive halftones in the diatonic genus.8 The same symbols in the chromatic genus would represent in ascending scalar order the sequence $1-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ (or I), and this again is a theoretical impossibility within the framework of the Greater and Lesser Perfect Systems which do not allow for three consecutive halftones.9 The same is true for the enharmonic. To make matters worse, the five notes do not appear together in any one Alypian tropos. In both the diatonic and chromatic genera A, Z, and E, for example, belong to the Aeolian or Hyperionian and Θ and Λ to the Phrygian, but this would mean that the music would proceed in the Aeolian or Hyperionian through the A and Z, modulate to the Phyrgian in Θ , modulate again to the Hyperionian at E, and then modulate still again into the Phrygian at Λ . This is not possible.¹⁰ The previously

⁵ Parallels for a textual diphthong sung to just one pitch include POslo 1413.8b and Mesomedes Hymn to Nemesis 13. All line references hereafter unless otherwise noted are from Egert Pöhlmann, Denkmäler altgriechischer Musik (Nürnberg 1970).

⁶ Normal procedure would have one long diseme stand above both notes of a melismatic diphthong and not one over each, e.g. *PBerolin* 6879.6 and 7.

⁷ Greek music often colors words relating to song, e.g. the first Delphic hymn, lines 15 (ἀδαὰν) and 16 (ὕμνοισιν άναμέλπεται). All three words here contain the colorful borrowed note O.

⁹ Aristoxenus iii 65.

⁹ Aristox. iii 74 (=92.12–17 da Rios), followed by Cleonides 195.4–196.8 Jan, allows for a rearrangement of tetrachordal intervals with the three $\sigma_X \dot{\eta} \mu a \tau a$ of the *dia tessaron* ($\frac{1}{2}$ 11, 1 $\frac{1}{2}$ 1, 11 $\frac{1}{2}$), but even a mixture of two different 'figures' would not contain the necessary three consecutive halftones. *Cf.* Aristox. iii 65.

¹⁰ Where modulation occurs in the fragments, it moves most often from one *tonos*, genus, or system to another in cola or blocks of cola but not back and forth within one word. Both Delphic hymns modulate in blocks of cola. published fragments do not reveal such a double modulation within one word, word coloring or not. They may reveal back and forth movement but usually within the modulated *tonos* (e.g. chromatic/diatonic or conjunct/disjunct modulations) or to notes common to both *tonoi*.

An emendation is necessary. The authentic vocal notation no doubt resembled a *theta* to the eye of the musically untrained stone cutter, but it was more probably a recumbent *phi* which resembles a *theta* but which belongs more appropriately to the diatonic and chromatic Hyperionian *tropos*. This means that the scale of the piece can now be identified as chromatic Hyperionian $(I_2^1 - I_2^1 - I_2^1)$; the diatonic Hyperionian $(I_2^1 - I_2^1 - I_2^1)$; the diatonic Hyperionian ($I_2^1 - I_2^1 - I_2^1$) is not likely since the traditional diatonic tetrachord contains no trihemitonic interval.

In the chromatic Hyperionian the melody would be moving from paramesē (A) in the first note of $d\epsilon i \sigma \omega \mu \epsilon v$ to mesē (Z)—both standing ($\epsilon \sigma \tau \hat{\omega} \tau \epsilon s$) notes—and then to nētē synēmmenōn (Θ)—also a standing note but in the synēmmenōn tetrachord and not the diezeugmenōn (of which the paramesē is technically the bottommost note). From there the lines goes down to tritē synēmmenōn (E) and then to final Λ .

This final lambda presents a new problem since it does not belong to the chromatic Hyperionian. If the symbol was indeed intended to be a lambda, then the music would here shift into either the trite synemmenon of the chromatic Phrygian, the parhypate of the chromatic Hyperphrygian, the trite diezeugmenon of the chromatic Dorian, or the trite hyperbolaion of the chromatic Hypodorian. To simplify the analysis, one should merely describe this final note as a 'borrowed note' or leiterfremde Note (as labelled by Pöhlmann). One finds such notes in the first and second Mesomedes hymns, the first Delphic hymn, the second Delphic hymn (31-33a), the Berlin Papyrus (16-23), and apparently the Oslo papyrus.¹¹ They are often employed at grammatical or colon end, especially in lines 14 and 16 of the first Delphic hymn and in the Berlin papyrus, and they represent a momentary borrowing from another scale.

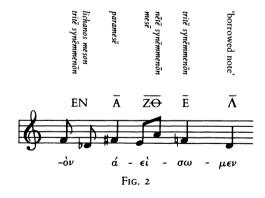
Another possibility, of course, is that the *lambda* is actually a misunderstood pointed *leimma* which would fit appropriately at verse end and which would thereby indicate a pause at the end of the hexameter. This stone cutter would certainly not have recognized this notation as a *leimma*, and the error was an easy one.

Another possibility is that this apparent shift to one note in a different *tropos* may have resulted from another error on the part of the stone cutter. Λ could have been cut instead of an A, in which case the music would conclude on an acceptable and final A (*paramesē*), a standing note. Delta (g^b) would be still another possibility since its pitch lies between E (*tritē synēmmenōn*) and Θ (*nētē synēmmenōn*) and since it belongs preferably to the *synēmmenōn* tetrachord of the Hyperionian chromatic *tropos*. If *delta* were the authentic symbol, then the line would conclude on the *paranētē synēmmenōn* and there would again be no borrowed note. As for the last four symbols in this line, $EN\Delta E$, Mitsos was probably correct in suggesting that they are textual letters that begin the (marginal) temporal reference $\epsilon v \delta \epsilon [\kappa \alpha \tau \hat{\eta};$ he cites as parallel the $\omega \rho \alpha \tau \rho i \tau \eta$ of the Epidaurian hymn to Pallas (IG iv 1² 134).

It is not impossible, however, that these four letters are actually more musical notation. At least the possibility must be considered since the letters $EN\Delta E$ would as musical notations conform to the musical structure $AZ\Theta E\Lambda$; all as musical notations, although the reading of final *epsilon* is extremely questionable, would fall within the chromatic Hyperionian *tropos*. If the final Λ is an incorrectly interpreted carving for a *leimma* or *delta*, one might argue, despite the liberal spacing between the Λ and the ensuing E, that the sequence $\Delta EN\Delta E$ could be a melisma over the $-\mu\epsilon\nu$ syllable.

One could conceivably argue that the final four letters are instrumental notation, for the three letters E, N, and Δ belong to the instrumental notation of three of the four *tropoi* into which the music sung to $d\epsilon i \sigma \omega \mu \epsilon v$ might shift—the Phrygian, Dorian, and Hypodorian chromatic. Such an instrumental interlude or postlude can be found in the Orestes papyrus and PWien G 13763/1494. The sequence (Λ) $EN\Delta E$ (d^b C f e^{bb} C), however, would contain a tremendous leap in pitch from the E to the N—the equivalent of an eleventh which would be unparalleled in all the previously published fragments.¹²

Because of the great number of difficulties found in interpreting the meaning and correctness of the musical and non-musical symbols above the first line of text of this hymn, it is not possible to provide an unqualified transcription of the music. Problems arise in the placement of the notes EN and ΘE , in the identification of the letters or notes $EN\Delta E$, and in the correctness of the vocal notations Θ and Λ . The transcription of the most probable musical text of the fragment would be as follows:



The pitches here are based on those chosen by Jan (ex Bellermann) for his transcriptions of the Alypian tables. The rhythm allows a quaver for a short (chronos protos), a crotchet for a long (each here designated with a diseme). It is most probable that the two disemes over $Z\Theta$ were to render the notes equivalent to one long, but without a hyphen it is impossible to be certain; here the method

¹¹ Cf. R. P. Winnington-Ingram, Mode in ancient Greek music (Cambridge 1936) 40 n. 1, and Eitrem, Amundsen, and Winnington-Ingram, 'Fragments of unknown Greek tragic texts with musical notation', Symb.Osl. xxxi (1955) 45-7.

¹² *PWien* G 13763/1494, line 3, contains a rise of a ninth. The second Delphic hymn, line 29, contains a drop of a ninth.

derives from that employed by Winnington-Ingram in his transcription of *POslo* 1413.¹³

In this transcription one can see that the melody follows the contour of the pitch-accent by rising to its highest pitch for the accented syllable.¹⁴ If the word before $d\epsilon i\sigma\omega\mu\epsilon\nu$ is in fact $\theta\epsilon\delta\nu$ then the pitch over its grave-accented syllable correctly lies lower than the accented syllable of the following word. In following the pitch-accent contour, the melody of this inscription resembles that of such other hymns as the Delphic (2nd cent. BC), those by Mesomedes (2nd cent. AD), the Seikilos inscription (1st cent. AD), the Oslo papyrus (1st-2nd cent. AD), POxy 2436 (1st-2nd cent. AD), the Michigan papyrus (2nd cent. AD), the Berlin paian (2nd-3rd cent. AD), and POxy 1786 (3rd-4th cent. AD).¹⁵

That the line of music might end on the 'borrowed' note has a striking parallel in the very dramatically and melismatically rendered Alav at the phrase end of the second line of the (roughly contemporary) Berlin tragic fragment (17). And to the melisma $Z\Theta$ jumping the entire length of a tetrachord from 'standing' mese (Z) to 'standing' nētē synēmmenon (Θ), one might compare the unaccented ultima of $\epsilon[\nu] < \delta > \phi[\mu] \nu \chi \rho \nu$ in line 2a of POslo 1413 (mesē to nētē synēmmenon), the accented antepenult of xopeúgate in line 2 of POxy 2436 (nētē synēmmenon [=paranētē diezeugmenon] to mesē), and several other loci. To this inscription's intraverbal tetrachordal movement (systemic modulation) from E(trite synemmenon) to N (lichanos meson) above -ov, one might compare those in line 17 of the first Delphic hymn ($\tau \omega$ - $\hat{\omega} v$: trite hyperbolaion to nete synemmenon) and in line 1 of the Zenon papyrus (σοι τάδ' έ-: trite synēmmenon to lichanos meson to tritē synēmmenon).

The reason for the presence of just one line of musical notation is not clear and the phenomenon is unparalleled. One cannot assume that all subsequent lines were to be sung to the same sequence of notes, and the notes above the first line do not seem to be establishing a *tropos* from which a musician could improvise the rest of the hymn; they are not in scalar order, some notes seem to be repeated, and there is no parallel for such a theoretical scale at the introduction of a piece of ancient Greek sung poetry.¹⁶ It is puzzling as well that this exortation for the worshippers to 'sing' might be the only musically notated word in the hymn, since very few of the worshippers would be able to read the music and those present frequently would certainly have memorized the phrase.

Despite all the perplexities and uncertainties found in reading, analyzing, and transcribing this brief piece of third-century votive poetry, what does become clear is that from the third-century renascence of interest in hygienic cults at Epidaurus there may now have been found at least one example of an inscribed, musically notated hymn to Apollo and other deities. We may now have three votive musical inscriptions ranging in date from the second century BC to the third century AD and a musical epitaph from the first or second century AD. The range of date for these four stone inscriptions suggests to us that the practice of cutting musical notation into stone can no longer be assigned only to several flukes recovered one century ago. While all the discoveries of new musical fragments sine the 1890s had been in the area of papyrology,¹⁷ there is now at least hope that further excavation in religious sanctuaries might turn up more musically notated offerings more complete and more reliably copied than this extremely fragmentary hexameter, Hyperionian chromatic curiosity.18

JON SOLOMON

¹⁷ PBerolin in 1918, POxy 1786 in 1922, PZenon 59533 in 1931, POslo in 1955, POxy 2436 in 1959, PMich 2858 in 1965, PLeiden inv. 510 in 1973, and POxy 3161 and 3162 in 1976.

University of Arizona

¹⁸ I would like to thank Profs Thomas J. Mathiesen of Brigham Young University and Michael W. Haslam of UCLA for their careful reading of this paper and subsequent criticisms and suggestions. I am grateful as well to M. Mitsos and Alcibiades N. Oikonomides for calling the inscription to my attention.

Alexander's brothers?

Our knowledge of the early life of Alexander the Great is based upon very slender literary evidence. Arrian devotes only a few sentences to the years prior to Alexander's campaigns. Plutarch's coverage of Alexander's youth is also very condensed, and both he and Arrian rely almost exclusively upon pro-Alexander sources such as Ptolemy and Aristoboulos. The books of Curtius which deal with the early years of Alexander have been lost, and Diodorus' coverage is as usual very scanty. Justin's epitome of Trogus is among our longest and most comprehensive accounts, but it is often rhetorically unreliable and careless with details. Yet apart from occasional flashbacks and allusions in these sources and a few fragments of other historians, this evidence-heavily biased, meager, and unreliable as it is-comprises all we know concerning the first twenty years of Alexander's life.

Naturally facts are difficult to establish when all our extant sources are so unsatisfactory, and grotesque distortions are relatively easy to produce. Earlier this century, W. W. Tarn managed to create a pristine-pure Alexander the Just by explaining away all contrary evidence as hostile propaganda fabricated by Alexander's enemies to blacken his name.¹

I wish to thank E. Badian and A. B. Bosworth for many valuable discussions and helpful suggestions made during the preparation of this paper; I also wish to thank several anonymous referees for their useful comments. Obviously, none of these persons should be held responsible for those errors which still remain, nor for the arguments presented. I am grateful to Harvard University, the Westinghouse Corporation, and the Winston Churchill Foundation for their financial support during the preparation of this paper.

¹³ Eitrem–Amundsen–Winnington-Ingram (n. 12) 62, line 7 over $-\delta \acute{a} \mu \epsilon \iota a$.

¹⁴ For the contour over an uncircumflexed diphthong, cf. POxy 1786.3 (ὑμνούντων).

¹⁵ For the most part the pitch sung to the accented syllable stands higher than the pitches used on the previous, unaccented syllables of the same word. The rules for accentual corresponsion as outlined in Pöhlmann 140 need re-examination. Cf. POxy 1786.5 ($\ddot{\alpha}\mu\eta\nu$) and POxy 3161. 8–9.

¹⁶ Several pieces from the Anonymus Bellermanni (Pöhlmann nos 8, 9, 11) are in ascending scalar order, but these 'exercises' with instrumental notation are not attached to any text.

¹ The extreme nature of Tarn's views is well-demonstrated by a passage relating to the topic of this paper. In his *Alexander the Great: sources and studies* ii (Cambridge 1948) 260–2, he acquits Alexander of the murder of his brother Karanos by 'debunking' Karanos' existence,