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PREDICATION AND INHANENCE: ANAXAGORAS. PLATO, EUDOXUS. AND ARISTOTLE

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1. Introduction

A theory of predication invokes immenence, as I shall use the word, if it explains why snow is white by introducing something that is in snow that accounts for its being white.

Aristotle's theory of predication in the <u>Categories</u> is partly immanentiat: it explains what we may call accidental predications (Aristotle does not use this terminology in the <u>Categories</u>) in terms of immenence. A stick is white because white, or, better, whiteness, is in the stick, but Socrates is a san not because of anything in him. In the <u>Categories</u>, nothing explains the latter predication: Socrates just is a man. Elsewhere, with the apparatus of matter in place, it is the fact that Socrates is a composite of a form or essence and matter that makes him a man: and then there is something that is in him that accounts for his being a man, and the theory is more thoroughly immenentiat.

In the Categories, Aristotle says (2. 1e24-25)

By 'in a subject' I mean what belongs in something not as a part but (as) incapable of being separately from that in which it is (èv ὑποκειρένου δὲ λέχω δ ἔν τινι γὴ ὡς μέρος ὑπάρχον ἀδύνατον χωρίς εἶναι τοῦ ἐν ῷ ἐστίν).

My object here is to shed some indirect light on this passage. It has aroused considerable controversy; what I have to say does not bear directly on that controversy. The only point touching the controversy that is relevant is this; these lines do not define the 'in' of immanence. To do that, they would have to distinguish being in a subject from being said of a subject; but it is equally true of something that is said of a subject that it is not a part of that subject and is incapable of existing separately from that of which it is said. As Aristotle later tella us (5. 255-66):

So without there being primary substances (it would be) impossible for any of the other (things) to be: for all the others are either said of these as subjects or in these as subjects (phases of the pairws obstances about the distance of the pairws obstances about the distance of the pairws obstances about the distance of the pairws obstances of the pairws of the pairws obstances of the

My suggestion is the following. The comment in 1a24-25 is a disclaimer. It responds to an immenentiat theory of predication under discussion in the Academy, according to which the something that is immenent in snow that makes it white is a physical ingredient. This theory was an idea of Eudoxus'. Aristotle was sympathetic to the position, and his own sounded a lot like it. But his was not that position, and so it was important to distance himself from it.

The idea that snow is white because white or whiteness is a constituent of snow has one obvious drawback; it cannot be generalized to cover all the predicates that attach to things. It will not cover the predicates that are not physical ones: we can hardly say that Socrates is ironic because he has irony-stuff in him. Nor will it cover all the physical predicates: we cannot say that Socrates is a small man because he has some smallness-stuff and some san-stuff mixed in with the rest of his properties.

I shall not pay much attention to this drawback. We can think of Eudoxieniam as a partial theory, intended to explain certain physical predications and elsewhere silentic And besides, when we consider Aristotle's objections to the theory, we shall find that there is no record of an objection on this score. But it is a drawback, and there will be times when we shall have to notice it.

Here is a disclaimer of my own. According to a acholerly tradition still current, when Aristotle arrived and enrolled as a freshman at the Academy, Plato was off in Sicily trying to make a philosopher out of a king and had left Eudoxus in charge. That tradition remains on a single late text, already known to contain inaccuracies, which has been emended, on the basis of a Latin translation, to make it say this, and the result of the emendation does not clearly say this anyway. It could, for all anyone knows, be right; perhaps it would even be pretty, given what I am

See Ackrill, ACat&Int (1963 pp. 74f.); Owen, "Inherence" (1965); Matthews & Cohen, "The One and the Hany" (1967/68); Allen, "Individual Properties" (1969) and "Substance and Predication" (1973); Jones, "Individuals" (1972); Annas, "Individuals" (1974); Frede, "Individuen" (1978); Heinesen, "Non-substantial Individuals" (1981). Hy own contribution is "First Thoughts" (1975); this has been challenged by Wedin, "Said of'" (1980). (For full citations, see "Bibliography" below.)

² Minio-Paluello's text, but not quoting his 6b-c. The textual difficulties are not here relevant.

Apparently sterted by F. Jacoby, Apollodors Chronik (1902) 324 n. 18; continued by E. Sachs, De Theaeteto 17-18 n.2; Jaeger, Aristotle 16-17 n. 2; Düring, AABT (1957) 159-160 and Aristotles (1966) 1; Nerlan, Studies (1960) 99 n. 14. For dissent, see Friedländer; Pleto (English trs, 1958 or 1969) 353 n. 15; Gigon, "Interpretationen" (1958) 159 n. 22 and Vita (1962) 49; Leazl, Il 'De ideia' (1975) 339. Huxley, "Eudoxian Topica" 84-85 expresses qualified assent, but the story is absent from his "Eudoxus" (1971). See also Lasserre, Fragmente des Eudoxos 138 (it is incompatible with Lasserre's favored birthdate for Eudoxus, 391/390 (138-139), as Leszl points out (3391); Isnardi Perente, Studi (1979, but the article was first published in 1977) 132-133 n. 186; Guthrie, HGP v (1978) 447-448, n. 1 p. 448.

suggesting. But we cannot trust it, and anyway it would make no difference: Eudoxus, at some point or other in the relevant period, hung around the Academy and, apparently, made some scontribution relevant to our understanding of what was going on.

To get in on the ground floor of immentism, we should go back to Anaxagoras. We shall find Aristotle bracketing Anaxagoras and Eudoxus, and Aristotle's objections against Anaxagoras will be essential background for understanding his objections against Eudoxus, so this is not merely a Sunday excursion.

2. Anaxagoras

Anaxagoras does not clearly have a name for what Aristotle would call his 'principles' (e.g., Phys. A 1184all,16, etc.), 'underlying bodies' (e.g., Phys. A 4. 187al3), or 'elements' (e.g., De caelo f 3. 302a32). He speaks of 'ell things' (πάντα χρήματα or just πάντα: e.g., 5981, DK_ii 32.11, 12f.). Aristotle calls them 'homoeomers' (ἀμαισμερή 187a25, 302a31-32), which I cannot translate or pronounce. Let us say 'ingredients',

His views about these ingredients and the mixtures they compose were relevant to the concerns of Plato's Academy, for Anaxagoras accounts for the truth of "snow is white" by making white present in gnow as a part of it; he even says that snow 'partakes of' white. But, in addition, it cannot be separated

from it.

Aristotle interprets this as an immenential theory of predication. He thereby interprets Anaxagoras in terms that were unavailable to Anaxagoras. I think there is nothing wrong with that, and that Aristotle's interpretation is correct. But here it is enough to remind ourselves that the positions we are ultimately trying to understand are Eudoxus' and Aristotle's anyway. So it does not matter as much as it might whether Aristotle has read Anaxagoras rightly.

Anaxagoras says, in 5986 (=DK 35.13-20):

And since the portions of the great and the small are equal in plurality, so also all things would be in everything; and they cannot be separately but all things partake of a portion of everything. Since there cannot be a least, it is not possible for anything to be separated, or to come-to-be by itself, but just as in the beginning also now all things are together. In all things there are present many things, equal in plurality in the greater and in the smaller of the things being disjoined.

καὶ ότε δὲ ἴσαι μοῦραί εἰσι τοῦ τε μεχάλου καὶ τοῦ σμικροῦ πλήθος, καὶ οὕτως αν εἰη ἐν παντὶ πάντα οὐδε χωρὶς ἔστιν εἶναι, ἀλλὰ πάντα παντὸς μοῦραν μετέχει. ὅτε τοὐλάχιστον μὴ ἔστιν εἶναι, οὐκ ἄν δύναιτο χωρισθήναι, οὐδ' αν ἐφ' ἐαυτοῦ χενέσθαι, ἀλλ' ὅπωσπερ ἀρχὴν εἶναι καὶ νῦν πάντα ὁμοῦ. ἐν πάσι δὲ πολλὰ ἔνεστι καὶ τῶν ἀποκρινομένων ἴσα πλήθος ἐν τοῦς μείζοσί τε καὶ ἐλάσσοσι.

In 5988 (# DK ii 36.14-16), he says:

The things in the one cosmos are not separated 11, not cut off from each other with an ax, neither the hot from the cold nor the cold from the hot (où εχώρισται άλλήλων τὰ ἐν τῷ ἐκὰ κάσκω οὐὰὲ ἀποκέκονται πελέκει οὐτε τὸ θεργὸν ἀπὸ τοῦ ψυχροῦ οὕτε τὸ ψυχρὸν ἀπὸ τοῦ θεργοῦ).

In B12 at DK ii 39.2-4 he says:

But nothing is totally disjoined 2 and disconnected 3 from

- 3 ~

⁴ Frank, "Die Begründung" (1955) 145-150, makes much of this.

Leszl, II 'De ideis' 335-340 would deny this: he thinks that a theory of forms is incompatible with Eudoxus' known hedonism, and that the dating is against it (see above, n. 3). See below, pp. 23-24.

But in fact, I think he called them 'seeds' (σπέρματα), as De caelo 302a31-b2 suggests, and as Simplicius in De caelo 603.17-19 says; so also Ross AM i 132 ad 984a14. But this is controversial: see Schofield, Essay (1980) 121ff., esp. 128-132.

A term that probably does not go back to Anaxagoras: Sailey thought so (Greek Atomists 551-556), but see Mathewson, "Aristotle and Anaxagoras" (1958) 77-81, Guthrie HGP ii 325f.

As was emphasized long ago by Becker, "Eudoxos-Studien V" (1936) 395ff. It has Precently been re-emphasized by Brentlinger, "Incomplete Predicates" (1972) 63-69; see also Furley, "Anaxagoras" (1976) 80-83 = Anton & Preus (1983) 83-86.

The analogies prompted Furley, on cit. (1976) 82 = (1983) 84, to speak of Anaxagoras' ingredients as 'forms'; for his purposes it does no herm. But it might here.

Becker, "Eudoxos-Studien V" (1936) 395 n. 15, drew attention to the phrase σπέρματα πάθτων χρημάτων παὶ ἰδέας παντοίας Εχοντα καὶ χροιάς καὶ ἡδονάς in 5984 dt DK ii 34.7-8.

¹⁰ With εἴη ἐν, ἔνεστι, etc. in these places cf. Cat. 1a20-21, etc.

With χωρίς, χωρισθήναι, etc. in these places of. χωρίς in Cat. 1a25.

In these places the words are imampirersum and its cognates: often translated using the English 'separate' (e.g., Kirk & Raven (impressions of 1957 through 1963) 376; Kirk, Raven & Schofield (1983) 365). Elegance has been sacrificed in favor of uniformity in translating words for separation.

¹³ starpiverBat and cognates: see nn. 11 and 12.

anything alse except mind (παντάπασι δε οὐδεν άποκρίνεται ούδε διακρίνεται έτερον άπο τοῦ ετέρου πλήν νοῦ).

"Just as in the beginning also now all things are together": he thinks there once was a Cosmic Soup in which everything was mixed. In that Cosmic Soup, "when all <things> were together, nothing was manifest" (B1, 32.12-13: καὶ πάντων όγοῦ ἐάντων οὐἀὲ, ἔνὰηλον ἦν); specifically, "no color was manifest" (B4, 34.17-18: οὐἀὲ χροιὴ ἔνὰηλος ἦν οὐἀερία). But we want him to tell us why snow is white. So we can pass up the Soup course, except for one point.

The ingredients that were all together in the Coamic Soup and still are all together are "unlimited in plurality" (B1, 34.11); Aristotle says that Anaxagoras made the apxal unlimitedly many (Met. A3. 984a11-13; Phys. A4. 187a25, 26f., P3. 203a19-20, etc.). So there is no end (or beginning, or middle) to the list of features covered by Anaxagoras' theory of predication; as Aristotle will tell us, the accidents of a thing are unlimited (anelpa yap av 70 est suppain, Phys. B 5. 196b28-29). Even so, it is only a partial theory. For the Cosmic Soup, which had all the ingredients in it, had no horses or men or turnips.

Here we first encounter the Drawback mentioned at the outset. And, since Anaxagoras' position is a response to Parmenides' denial of the possibility of anything's coming-to-be, the problem is acute, for that denial is completely general.

But this is the norm for the fifth-century cosmologists: Empedocles and the atomists also respond only partially to Parsenides' challenge. So, for the present, let us ignore the Drawback.

"Since there cannot be a least, it is not possible (for anything) to be separated, or to come-to-be by itself": if there were stoms of white or cold, one could imagine detaching one. He thinks there aren't: there is no least quantity of any ingredient. But this does not show the impossibility of isolating some pure white or pure cold; it merely denies one of the conditions under which that would be possible. Anaxagoras' argument for the inseparability of white sust be sought elsewhere.

"All" things are "in everything"; "all things partake of a portion of everything"; snow has white in it, along with every-

thing else; everything else has snow, and white, and everything else in it. This, the "Principle of Universal Hixture", is the proximate explanation for the inseparability of Anaxagoras' ingredients: there is no getting the white out of the snow because then there would be white that had nothing else in it and snow that had no white in it.

So the question is: why does Anaxagoras accept Universal Hixture? Or rather, why does Aristotle think Anaxagoras accepted it?

After commenting, in <u>Physics A 4</u>, that Anaxagores employs unlimitedly many principles, Aristotle gives an explanation (187a26-b2):

Anaxagoras seems to have thought them unlimited in that way because of his taking the opinion common to the physicists to be true, that nothing comes to be out of what is not (for a30 because of this they say that fall things were together, and he' makes such-and-such a thing's coming-to-be an alteration, while they (make it) combination and disconnection 13); and egain, from the fact that the contraries come-to-be from each other; therefore they were <it before>; for if everything that comes-to-be present in" necessarily comes-to-be either from things that are or things that are not, and of these <alternatives>, that it comes-tobe from things that are not is impossible (for about this

a35 fall those concerned with nature thought the same), they thought that the remaining (alternative) followed of necessity, and it comes-to-be from things that are and are present in a cit beforehand, but (imperceptible to us because of the

187b in the state of the smallness of their bulks. Which is why they say that everything is mixed into everything, because they see everything coming-to-be from everything.

COLEE de Avetes

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There are many other passages in which Aristotle says this: see 82 Ind 49a58-61. But Schofield is reluctant to accept it as an interpretation of fr. 1: see Essay p. 77 w. n. 12 p. 156 and pp. 78-79. If the identification mentioned in n. 6 above were accepted, this would follow from 5984 at 35.1-2, where Anaxagoras speaks of "seeds unlimited in plurality in no way: resembling each other" (σπερμάτων απείρων πλήθος οὐἀξε. ἐοικότων αλλήλοις) as being present in the Cosmic Soup.

See Furley, "Anaxagoras" (1976). 64-66 = Anton & Preus (1983) 73-74 et passim. I am not entirely clear what Furley's solution to the problem is.

So also, I take it, Schofield Essay 89-94.

Kerferd, "Anaxagoras" (1969), in Mourelatos (1974) 491.

Again, I think the answers are the same, page Schofield Essay 106-107 and ff.

Anaxagoras. I find the sequence of references to Anaxagoras (a26 aingular, a29 plural, a30 aingular, b1 plural) puzzling, but apparently no one else does.

[&]quot;of de refers primarily to Empedocles, whose doctrine Aristotle often refers to as identifying giver, with support wat diamples, though this is equally true of, and is ascribed by Aristotle elsewhere to, Anaxagoras." (Ross AP 484f.) See Anaxagoras fr. 17 for the identification; but the only passage in Aristotle that Ross cites (De gan. et corr. 314e13) makes Anaxagoras identify givers, with additions, as here in 187a30: (AP 484 ad 29-30). Perhaps he has in mind Phys. f 4. 203a27-30, where diamplest and givers; seem to be interchangeable.

²¹ ένυπάρχει»: cf. έν. . . υπάρχον <u>Cat</u>. 1a24-25.

ξόρας απειρα ούτως οίηθηναι διά τὰ ὑπολαμράνειν «τὴν κοι» νήν δάξαν των φυσικών είναι άληθη, ώς ού χιχνομένου ούδένος έκ του μη δντος (διά τούτο μάρ ούτω λέχουσιν. ήν όμου αθο πάρτα, και το χίχνεσθαι τοιόρδε παθέστηκεν/άλλοιούσθαι, οί δε σύμκρισιν και διάκρισιν). Ετι δ' έκ του μίμνεσθαι έξ άλydyme igeanica, cenudbien aba, er fab san ben io frενόμενον άνάχκη χίχνεσθαι ή έξ όντων ή έκ κή όντων, τούτων δέ το μέν έκ μη δυτων χίχνεσθαι άδυνατον (περί χάρ ταύτης a35 ομοχνωμονούσε της δόξης άπαντες οι περί φύσεως), το λοίτον ήδη συγραίνειν έξ άνάγκης ένομισαν, έξ όντων μέν καί ενυπαρχόντων χίνεσθαι, διά μιπρότητα δὲ τῶν ὅχκων ἐε 187b ἀναισθήτων ἡμίν. διό φασι κᾶν ἐν καντὶ μεμίχθαι, διότω παν έκ παντός έώρων χινόμεναν.

"Aristotle's presentation of the argument is not orderly, but it is clear. The overarching premiss is the one 'common to the physicists', which Aristotle formulates twice in this passage (a28-29, 33-34):

(1) Nothing can come-to-be from what it is not already. 22 Ariatotle elaewhere (Phya C 4. 203e28-29) puta Anexagoraa' view as "τὸ Σιχνόμενον έκ τοῦ τοιούτου χίχνεται σώματος"; this might be translated 'what comes-to-be comes-to-be from the Bort of body (it is'; 23 it is another version of (1).

In our text, Ariatotle adda to (1) (18761-2):

(2) Everything comes-to-be from everything.

or perhaps, referring again to Aristotle's account elsewhere (203a24):

(2*) Anything-comes-to-be from anything, no doubt, as Simplicius explains, "even if not immediately, still, in due course" (εί και μή άμέσως, άλλά κατά τάξιν, in Phys. 460.13). And he concludes:

(3) Everything (or anything) already is everything (or anvthing).

But nothing seems as if it were everything; there is a difference between being something and manifestly being something, between being something and both being and seeming to be something. Aristotle next says (Phys. A 4. 187b2-7):

but <they say things> show up and are named differently from each other from that which most exceeds in plurality in the mixture of the unlimited things; for <they say> there is no b5 (whole purely white or black or flesh or bone, but whatever

Charles Calle Carryon's each thing has most of, that the nature of the thing is taken to be.

μαί προσαχορεύεσθαι έτερα άλλήλων έχ τοῦ γάλισΒ΄ ύπερέχοντος διά πλήθος έν τη μίθει των άπείρων είλικρινώς μέν b5 μαρ όλον λευκόν η ρέλαν η χλυκύ η σάρκα η όστους ούκ elrat, oron de nheiator exactor exet, touro doneir elvat the φύσιν του πράχματος.

Here he is accurately representing Anaxagoras; in 59B12 (at DK 11 39.6-7 we read):

but whatever <things> there is most of in (anything), these (things) each one thing is and was (all' orwe mictora ert, ration ένδηλότατα εν έκαστόν έστι και ήν)...

This principle 24 needs a bit of commentary: snow is white because white predominates in the mixture that is snow, but that does not mean every feature apart from white is blanked out, for snow is also cold. It must be that, in the mixture that is snow, white predominates over black, and cold over hot.

At this rate, the features the theory is to account for must come in contrary pairs: for a feature to predominate, it must have something to predominate over. It is not obvious how this could be made to apply to some of the features most popularly associated with Anaxagoras' doctrine: flesh, bone, hair, bread and so on. (see, for these examples, De caelo P 3. 302a32-b1, De gen. an. A 18. 723a10-11 Simplicius in Phys. 460.15-17 = DK ii 18.14-16. 'Aëtius' i.3.5 at DK ii 18.34,36). But if the scholiast on Gregory of Nazianzus is not lying, " Anaxagoras said (59810, DK ii 37.6-7):

For how could hair come-to-be from not hair and flesh from not flesh? (κώς μάρ αν έκ μή τρίχος μένοιτο βρίε και σόρε έκ μή σαρχός;)

And then he was in possession of a cheap device for manufacturing contraries ad lib.

²² Following Furley "Anaxagoras" (1976) 64, 68 n. 18; (1983) 72, 75, 88 n. 18. Schofield Essay 167 n. 67 says "this seems improbable in the light of 187a32ff.": I do not see what it is about 187a32ff. that renders it improbable.

So I am inclined to think, with Philoponus in Phys. 397.26-27, 396.27, Simplicius in Phys. 460.12, Hardie and Gaye (Oxford trs.), and Carteron (Bude) 96. But Schofield denies this (Essay 153 n. 34), and other recent translators and commentators take it differently: Wagner Physikvorlesung 66, Hussey APili&iv 7 (tra.) & 75 (comm.).

The "Principle of Predominance": Kerferd, loc. git. n. 17 above.

So also Furley, "Anaxagoras" (1976) 81 = Anton & Preus (1983) 84. But Furley's commentary is different from mine.

Perhaps when Aristotle says, in 187a25-26, that Anaxagoras makes the underlying bodies "the homogomers and the contraries" (τέ τε ομοιομερή και τάναντία), we should translate "the homosomers, that is, the contraries".

I am not convinced by Schofield's asseults on him: "Doxographica" (1975) 14-24 and Essay 135ff. Schofield's skepticism is shared, to some degree, by Furley, "Anaxagoras" 66-67 * Anton & Preus (1983) 74-75

Plato had some things to say about forms. And some of the things he said sound immediantist.

3.1 Immanentist language in the early dialogues

There is a group of immanentist passages in the early dialogues. They have sometimes been taken as showing that Plato once held an immanentist theory of forms. They do not show that. In these early passages, Plato is arguing about matters other than metaphysics (namely ethics, or something like ethics) and drawing such distinctions as he thinks he needs to make points about these. His arguments require no backing by any metaphysical system, whether immanentist or separatist.

Fujisawa, "Excly, Heréxely" (1974) provides a different list (p. 42), but I have some reservations about that one as well. For one thing, numerous occurrences of peréxely in the Protagoras and elsewhere are ignored, presumably because the context is not one in which Socrates is seeking a definition. See also below, nn. 34, 37.

This is one of the many points at which Brandwood's <u>Index</u> (1976) is indispensable.

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For example: in the initial conversation in the <u>Hippias Major</u>, the word galor and its cognates are used with great freedom. It occurs to Socrates to ask Hippias what he thinks it means, or, if you prefer, what the beautiful is. He sets up this question by first asking Hippias whether he thinks there is such a thing as the beautiful (287c4, c6-8, d1-2). This does not require enyone to reflect on the ontological status of the beautiful: Buit simply nails down the topic for discussion.

But philosophers sometimes do fall to reflecting about ontology. They ask: what is the status of meanings, or essences, for universals, or intentions, or forms, or ideas, or the general, or whatever? Are such things to be identified with, or distinguished from any of the ordinary things we encounter here on the ground? And so on. And when they do, their starting-point for understanding is likely to be just such conversations as the one between Socrates and Hippias, or those we are about to notice. Plato must at some point have asked himself: how seriously should I take Socrates, or my own, language in places like these?

The occurrences of ev in Laches 191e5, e6, e10, 192a2, e3, a5, a9, b6, b7 are sometimes cited. We cannot count all of these: at 191e5, e6, 192b6, b7 what courage, cowardice and quickness are in are not the people or even the actions that are courageous, cowardly, or quick, but the circumstances and conditions in which people do courageous, cowardly, or quick things. Still, in 191e1-6 Socrates says:

But I mean it like this: just as if I were to ask what is quickness, which we happen on in running, in zither-playing; in speaking, in learning, and in many other things, and we possess something of it worth mentioning in the actions of our hands, legs, mouth, voice, or understanding.

All was a partie, which were an et taxoc input to not estiv, a sai en to trace to taxoc input to the taxoc to taxoc in taxoc taxoc to taxoc t

And a little later we get talk of 'partaking of' courage and wisdom (perexcus, 193e3, 197e2).

At Euthyphro 5d1, the plous is the same in every action; in

Ross' survey of Plato's language about the theory of forms (PTI 228-230) is a useful place to start, but so selective that his claim (228) that "it is near enough to being complete to furnish a true indication of Plato's usage" (or Brentlinger's ["Incomplete Predicates" 68 n. 9] that it covers "all the important dialogues") is seriously misleading. Among my complaints are that he takes no note of the immanentiat language in the Phd., and he makes no reference whatever to the Chrm. (the latter is also voiced by R.K. Sprague, LasChrm (1973) 65 n. 22). For some different complaints, see Gwen, "Tim", Allen (1965) 321 n. 2; Cherniss, "Tim", (1957) 250f; and the complaint is that Ross cites, idioms which he takes to "indicate "transcendence" in the early dialogues".

Notably, by Ross, PTI 21, 228-230.

So also Allen, on the 'first friend' of Lysis 219cd (Plato's Euthyphro 155). But Allen seems to me to use this device only when it suits him: cf. next note.

So I find myself in disagreement not only with Ross but with Allen (op. cit. n. 30, and "Plato's Earlier Theory" (1971)) who sees in the early dialogues a metaphysics of separate (as opposed to immanent) forms. Prauss, Platon (1966) 17-22 speaks of 'the existence of the universal' ("die Existenz des Aligemeinen") as simply self-evident to Socrates and the early Plato (see p. 18), and even this seems to me to go too far. On the other hand, I find myself in virtually complete agreement

with Woodruff, PHpMa (1982) 161 et passim.

I am, then, inclined against as moderate a position as that of Malcolm, "Place of the <u>Hippias Major</u>" (1968). See Woodruff, "Socrates and Ontology" (1978) 103-109; <u>PHpMa</u> 45 n. 56, 163-164.

Ross, PTI 228; Brentlinger, "Incomplete Predicates and the Phaedo" (1972 (66).

The first of these is missing from Fujisawa's list ("Excer, Herexeer" 42), although, as far as I can tell, it meets the standards of significance.

Ed3 things are said to have a single taken in as such as they are implous.

When he wrote the <u>Hippias Major</u>, Plato seems to have been in love with the word sporffreeday, 'to be added to'; at 289d2-4 he refers to what he wants defined as

the beautiful itself, by which all other (things) are adorned and show themselves as beautiful when that form is added to them (αὐτὸ τὸ καλόν, ῷ καὶ τάλλα πάντα κοσμείται καὶ καλὰ φαίνεται, ἐπειδὰν προσχένηται ἐκείνο τὸ είδος),

and the use of this verb in this connection is picked up by Hippias (d8, e5) and reverted to by Socrates (290b7, 292d1). Put up against talk of adding flesh to flesh by eating (Phd 96d1, d3; cf. Tim 82b4, Lq vii 789a5), this sounds immanentiat and even Anaxagorean.

In <u>Charmides</u> 157a Socrates discusses an alleged Thracian treatment of the soul with beautiful words; at 157a5-7 he says:

From such words self-control comes-to-be in our souls, which, when it has come-to-be-in and is-present-to (them) it is easy to provide health for the head and the rest of the body (ix à tûv toιούτων λόμων έν ταῖς ψυχαῖς σωφροσύνην έχχίχνεσθαι, ἦς έχχενογένης καὶ παρούσης ῥάδιον ἦδη εἶναι τῆν ὑχίειαν καὶ τῆ κεφαλή καὶ τῷ ἄλλψ σώματι πορίζειν).

In 158b5-6, he says to Charmides, by way of raising a question:

and when he raises it it has the form (158c2-4):

so do you yourself say that you already adequately partake of self-control. .3? (αὐτὸς αὖν. . .καὶ φη ς ἰκανῶς ἤδη σωφροσύνης κετέχειν. . .)

And there is more immanentist language to come: self-control is something to be possessed (géringul 158d8), something that is present-to (gapelval 158e7, 160d7, 161e9, 175e2) or present-in (évelval 159e1, e2, e9) someone.

In the <u>Gorgias</u>, Socrates gives a more general formulation involving the expression 'presence-to' (497el-3):

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don't you call good men good by the presence-to (them) of goods, just as you call those beautiful whom beauty is present-to? (1οὺς ἀχαθοὺς οὐχὶ ἀχαθῶν παρουσία ἀχαθοὺς καλεῖς, ὥσπερ τοὺς καλοὺς οῖς ᾶν καλεῖς παρῆ;)

No one wishes to see in this any heavy ontology. 38 But suppose we lean on it anyway. It is an odd formulation; in fact, it incorporates two formulations: one, generalized, would be that things are F when F's are present to them, and the other, generalized, would be that things are F when F-ness is present to them. As far as I can tell, this point is completely irrelevant to understanding the Gorgias.

But the formulation is one about which Plato was reflective, even before he was asking expressly metaphysical questions.

In the Euthydemus, it is parodied: Socrates is trying to say that there are beautiful things (cf. καλύν πράχνα 300e3) that are not the same as the beautiful (301a1-4); "but", he says, "there is some beauty present to each of them" (301a4: πάρεστιν μέντοι ἐκάστῷ αὐτῶν κάλλος τι). This is ambiguous between the two formulations we found in the Gorgias, since 'some beauty' has the same idiomatic range in Greek as it does in English. In any case, Dionysodorus skewers him with this (301a5-6):

to which Socrates responds 'don't even say it!'. No doubt drawing a philosophical moral from alapstick shows failure to grasp the genre, but surely what Socrates should say to Dionysodorus is that it is not just any and every sort of 'presence-to' that makes for character. That would raise the question when it is that something's presence makes a difference (301s8-9). And that, slapstick or no, is precisely Dionysodorus' next question.

^{35.} Pace Tarrant, Hp Ha (1928), etc. See Woodruff, PHpNa (1982) 93-103 et passis.

It occurs more times in that dislogue than in any other, so including the monsters, R and Lq.

This also is unaccountably missing from Fujisawa's list (see

See Dodds, <u>PGrq</u> 314 <u>ad</u> 497e1; Irwin, <u>PGrq</u> (1979) 202f. <u>ad</u> 497e.

Sprague, Plato's Use of Fallacy (1962) 25-30, and, more briefly, PEuthd (1965) 55-57 nn. 95-96, sees here an attack on the theory of forms. The objection, she thinks, is, or is very like, that of Prm 130e5-131c11 ("Prm's Sail" [1967] 95-98; see also Liewelyn. Davies, "Theory of Ideas" [1897] 10). Gifford, by contrast, Euthd (1905) 59 ad 301a1 follows Stallbaum in seeing "only the logical doctrine of universals as held by Socrates, upon which Plato afterwards founded his metaphysical doctrine of 'Ideas'". I do not know whether I agree with this or not.

^{#0} παρείναι was used earlier in the dialogue in the same way:
280b2, b7.

So I think; see Gifford, Euthd 60 ad a8. Contrast Sprague,

Socrates does not answer it, there or anywhere else. But at Lysis 217c3-e1 we find this:

For I say that, for some things, where what is present-to them is such-and-such, they themselves are such-and-such; for others, not. Just as if someone plastered something with some color; I suppose what was plastered on would be present-to what was plastered (with it).

Very much so.

Then is that which is plastered also therefore at that time of such a color as that which is-on (it)?

I don't understand, he said.

But (it's) as follows, I said. If someone plastered your hair, which is yellow, with white-lead, would it then be white, or seem white?

It would seem white, he said.

And whiteness would be present-to it.

But nevertheless it wouldn't yet be any more white, but while whiteness is present to it it is neither at all white nor black.

True.

217c

But when, my friend, old age brings on it this same color, then it has come-to-be such as what is present-to <it>: white, by the presence-to <it> of white. される じゅう

How else?

This, then, I am asking now: whether, where something is present-to a thing. That which has it will be such as: that which is present-to <it>; or <is it that> if it; is present-to in a certain way, it will be, and if not, not?

Rather the latter, he said.

λέχω χὰρ ὅτι ἔνια μέν, οἶον ἂν Ϗ το παρόν, τοιαθτά έστι και αθτά, ένια δέπου, ώσπερ εί 5 εθέλοι τις χρώματί τω ότιοῦν (τι) άλεῦψαι, μάρεστίν μου τῷ ἀλειφθέντι τὸ ἐπαλειφθέν.--Πάνυ τε.--⁷Αρ: οδν καὶ ἔστιν τότε τοιοῦτον τὴν χρόαν τὸ ἀλειφθέν, οἶον τὸ ἐπόν; d --Οὐ μανθάνω, ἦ δ΄ ὄς.-- Αλλ' ὧδε, ἦν δ' ἔχώ. εἴ τίς σου ξανθάς οὕσας τὰς τρίχας ψιμυθίω ἀλείψειεν, πότερον τότε λευκαί εξεν ή φαίνοιντ' άν; -- ξαίνοιντ' άν, ή δ' ός. --Καὶ μὴν παρείη γ΄ ῗν αὐταῖς λευκότης..--Ναί.--'Αλλ' ὄγως 5 ούδεν τι μάλλον αν είεν λευκαί πω, άλλα παρούσας λευκότητος ούτε τι λευκαί ούτε μέλαιναί είσιν.-- Αληθή.-- Αλλ' όταν δή, ω φίλε, το χήρας αυταίς ταύτον τούτο χρώμα έπατάχη, τότε έχενοντο οδόνπερ το παρόν, λευκού παρουσία λευκαί.--Πώς γάρ οῦ--Υούτο τοίνυν έρωτῶ νύν δή, εἰ ῷ άν τι παρή, τοιούτον έσται τὸ έχον οδον τὸ παρόν ή ἐὰν γὲν κατά τινα τρόπον παρῆ, ἔσται, ἐὰν ἐὲ γή, οὕ:--Οὕτω μάλλον, έφη.

This is certainly fledgling metaphysics, and if it ever flew,

Plato's Use of Fallacy 26-27, Euthd 56 n.; against this, see Guthrie, HGP iv 278 n. 2.

it might be Eudoxianism. 42 It would account for the fact that something, which I shall call the host entity, is (say) white by the presence in it of an intermediary which is also white.

In the Lysis, it is not worked out. In the case of white. there is no candidate named for the intermediary entity: that cannot be old age, which is the only thing mentioned as explaining why the hair is white, since, as Socrates states it, the intermediary itself possesses the imported property, and old age is not white. If the intermediary were scaething like a pigment, like the white lead mentioned, that, in old age, was present-to the hair in a special way, as Socrates says, and not just plastered on to the outside, and if this special presence to were a matter of the pigment's being physically a part of the hair itself, the whole thing might be Eudoxianism.

But it would be an error to charge Plato with Eudoxianism or with any other metaphysical theory here. The passage is a part of an attempt to characterize the paradigm situation in which \times is friendly toward or loves y as follows:

y is good, and there is present in x something that is bad, but x is not thereby himself bad (see 217e-218a).

For example, there are people who have (of Exorter 218a6) ignorance, which is bad, but are not yet witless or studid, and so their possession of ignorance that not yet rendered them bad. These, according to the line Socrates is trying out, are the lovers of wisdom. So he distinguishes cases in which something F (something bad, or white) by its presence in something else makes that something else also F. from cases in which it does not. There is no hint that the notion of ""presence-in' that has to cover physical presence as well as whatever the relationship is between my ignorance and me is embedded in any general account of wwhy things are what they are.

Socrates once (Chrm. 161a4) quotes 4 and once (La. 201b2-3) alludes to Odyssey xvii 347:

Modesty is not <a>> good <thing> to be-present-to a man in need. αίδως δ' ούκ άξαθή κεχρημένω άνδρι παρείναι.

We do not want to put Homer on the list of immanentists. 45 In $\,$ the Lysis, we have very little better reason for putting Plato on that list. But we shall encounter the relation of presence-to again. And then it will be metaphysics.

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⁴² Cf. Becker, "Eudoxos-Studien V" (1936) 394-395.

See n. 30 above.

¹⁸⁴⁴ HTS17 "Far and 15-As Allen, Plato's Euthyphro 146 n. 1 points out.

⁴⁵ See also R i 331a2.

3.2 The Pheedo

Immanentiat language is not abandoned when Socrates has been launched into the orbit of the Theory of Forms: there are many passages in dialogues from the period of high theory to consider. Here I confine myself to the Phaedo.

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There, toward the end (102d7 and ff.), Socrates uses the phrase 'the teliness in us'; so it is thought that he has in his universe not only forms and ordinary things (or, better: forms, ordinary things, and souls) but also 'form-copies' 'immanent characters', or 'immanent forms'; indeed, to some, the passage is explicit about these. I think there are no such animals as 'immanent characters' or 'form-copies'. I also think there is another kind of immanentiat theory in the offing.

3.2.1 The safe theory.

A little earlier Socrates had been discussing theories that explain the truth of true predications. He has his own. It requires, first (100b5-7):

hypothesizing that there is a beautiful itself by itself and a good and a tall and all the others (ὑποθέρενος εἶραί τι καλὸν αὐτὸ καθ΄ αὐτὸ καὶ ἀχαθὸν καὶ ρέχα καὶ τάλλα κάντα).

He asks Cabes to grant that there are such things (b7: $\epsilon l \nu \alpha \iota \tau \alpha \nu \tau \alpha$).

This existential admission is no longer innocent: we have already had (in 74a-c) the generalized argument (generalized from one in the <u>Hippias Major</u>) that puts the forms on a different level from ordinary things.

Next (100c4-6):

It seems to me that, if there is anything else beautiful except the beautiful-itself, it is not because of any other one (thing) beautiful than because it partakes of that beautiful (φαίνεται μάρ μοι, εί τί έστιν άλλο καλὸν πλην αὐτὸ τὸ καλόν, οὐδὲ δι΄ ἐν άλλο καλὸν είναι η διάτι μετέχει ἐκείνου τοῦ καλοῦ).

In fact, he can't understand other causes (100c9-10): if somebody says that anything is beautiful because of its color or shape, he gets confused (c10-d3): he says (100d3-8):

but simply, artiessly, and perhaps foolishly I hold on to d5 this, that nothing else (makes it beautiful other than the presence-to or communion or however and in whatever way it is added to <things> of that beautiful; for I don't make any further claims about that, but <I do claim> that <it is> by the beautiful that all beautiful <things are> beautiful.

άτεχνώς καὶ ἴσως εὐήθως ἔχω παρ΄ ἐραυτῷ, ὅτι οὐκ ἄλλο τι d5 ποιεῖ ἀὐτὸ καλὸν ἢ ἡ ἐκείνου τοῦ κάλοῦ εἴτε παρουσία εἴτε κοινωνία εἴτε ὅκη ἀἡ καὶ ὅκως ἐπροσζενομένη οὐ κὰρ ἔτι τοῦτο ἀιισχυρίζομαι, ἀλλ΄ ὅτι τῷ καλῷ πάντα τὰ καλὰ (χίζνεται) καλά.

This theory tells us that:

- (1) There are the F-itself, the G-itself, etc.
- (2) If anything is F besides the F itself, it is F because it partakes of the F itself.
- (3) It isn't by anything other than the Fitself that anything is F.

But also, there is something about which the theory is explicitly silent: the relationship between the F itself and the things that are F because of it. Socrates mentions as possibilities 'presence-to', 'communion', and 'being added to'; and on the next page he uses various idioms of 'participation' (perexeup, peranxeute, peranxeute 100c5, 101c3, c4, c5, c6, 102b2). All of these are immanentist formulations, and only the second (used in this connection for the first time here) is new to us. But he is emphatic that he is committed to nothing whatever. He most often talks of participation: but this is now only a place-holder. The nature of the relation is up for grabs, as Aristotle tells us it was.

At 102b1-2, Phaedo reminds us of what has been so far agreed on: that "each of the forms is something, and the other things by participating in them get named after these themselves" (102b1-2: είναί τι ἔπαστον τῶν εἰδῶν καὶ τούτων τάλλα μεταλαμμάνοντα αὐτῶν τούτων τήν ἐπωνυμίαν ἴσχειν). The next words are (102b3-6):

Then if, he said, you say these things like that, won't it be

Bluck, PPhd 17-18, 118.

Hackforth, <u>PPhd</u> 147 <u>et passim</u>: Vlastos, "Reasons and Causes" (1969) 298 = Vlastos (1973 or 1981) 84-85 = Vlastos (1970 or 1978 vol. 1) 140-141.

Hackforth 162; Keyt, "Fallacies" (1963) 168.

Nehamas, "Predication" (1972/73) 475; Fujisawa "Exelp" (1974) 45; Gallop, PPhd (1975) 195. For futher references see Gallop; more recent additions are D. Frede, "Final Proof" (1978) 28; Natthen, "Forms" (1984) 281. There are a few denials: Verdenius, "Notes" (1958) 232-233; O'Brien, "Last Argument, I" (1967) 201-203; Guthrie HGP iv (1975) 353-356.

⁽¹⁾ was his first 'hypothesis', and (2) is the first thing he 'posits' as agreeing with it: see 100a3-5.

See preceding nn.: here Socrates is applying the negative part of his method (100a6~7).

d6 rporteropera: assuming that the text can be kept, or be exended in a way that preserves the word.

⁵³ Cf. Aristotle, <u>Metaphysics</u> A 6. 987b13-14.

that, whenever you say that Sirrias is tallor than Socrates, but shorter than Phoedo, you are saying that then both ere in Sirrias, both tallness and shortness? (Et of, f o' oc, rauta outus lessant spiness, both tallness and shortness? (Et of, f o' oc, rauta outus lessant spiness, saidanoc de charte, began talles to the Elypia spairepa, saidanoc de charte, lessant spinesson autoritate.

Here we first run into a form 'in' Simmiam. Suppose there were immunent forms or form-copies here. Socrates' question would be this.

"Consider, Cebes, the sentence 'Simmias is taller than Socrates but shorter than Phaedo'. Our theory tells us that for this we must have, to begin with, Socrates, Simmias, and Phaedo; then tallness and shortness themselves; and, third, another tallness and another shortness that are in Simmias, that mediate between the forms and Simmias. Not so?"

And Cebes, a sharp customer, would have replied, "But, O Socrates, where did this third group come from? You only apoke of curselves, and of forms; you said you knew nothing about the relationship between forms and their mundame participants. When did you learn of these go-betweens?"

That is not Socrates' question. The theory has given us only one tallness: tallness itself. And here he says it is 'in' Simmiss, where earlier he had said it was 'present to' him. There is no new theory in that.

He continues with 'in' in 102d5 and following. Tallness, he tells us, 'can't be both tall and short. This is familiar ground: it was part of the underpinning for the argument of 74a-c that showed us that the forms were radically distinct from mundamethings. But he now adds that the situation hasn't changed when we turn from consideration of tallness just by itself (αὐτὰ τὸ γεῖεθος 102d6), which can't admit the short (τὸ σριπρόν 102e1) to tallness as it turns up in us: here too it cannot admit the short (102d5-103a2). And again, we are not getting any new theory. There are tallness and Simmins, and tallness when it is in Simmins still won't be short.

Consider Socrates' reply to the anonymous interlocutor who thinks Socrates is now saying 'just the opposite' of something he had said earlier (103a5-10). Socrates draws a distinction (103b2-c2):

103ь

For then it was being said that the contrary thing 55 comesto-be from the contrary thing, but now, that the contrary 5 itself can't come-to-be icontrary to itself, neither that in us nor that in nature. For then, my friend, we were speaking about the things that have the contraries, derivatively

naming them after those, but now (we are speaking) about those things themselves which, when they are in (them), the c things Insmed get their derived names; and these themselves, we are saying, will never admit each other's coming-to-be.

τότε μέν ξάρ ἐλέξετο ἐκ τοῦ ἐναντίου πράξματος τὸ ἐναντίου πράζμα ξίξνεσθαι, μῦν ἀέ, ὅτι αὐτὸ τὸ ἐναντίον ἐαυτῷ ἐναντίον οὐκ 5 ἄν πρτε χένριτο, οὕτε τὸ ἐν ἡμῖν οὕτε τὸ ἐν τῆ φύσει. τότε μὲν ἔὰρ, ὧ φίλε, περὶ τῶν ἐχόντων τὰ ἐναντία ἐλέξομεν, ἐπανομάζοντες αὐτὰ τῆ ἐκείνων ἐπωνυμία, κῦν ἀὲ περὶ ἐκείνων αὐτῶν ὧν ἐνόντων ἔχει τὴν ἐπωνυμίαν τὰ ἀνομαζόμενα΄ ἀὐτὰ ὸ΄ ἐκείνα οὐκ ἄν ποτέ φαμεν ἐθελῆσαι ξένεσιν ἀλλήλων ἀξεασθαι.

When he says that the F can't be non-F, "neither that in us nor that in nature" (b5), he is not speaking of two things, the F in us, the form-copy, immanent form, or character, and the F in the sky, the Form, the F itself, for he goes on (b7-8), "now we are speaking about the things themselves which, when they are in" things here below account for predications about them.

I conclude that Socrates says nothing about any immanent

But, for immanence, that is not the end of the story.

3.2.2 The extended theory.

In 103cd, he asks us to concede the existence of the hot and the cold, and to distinguish them from fire and snow, respectively. He then tells us that, despite the difference between fire and the hot, it is in one respect like the hot; at the approach of heat's opposite, it must withdraw or perish (103d5-e1).

He thinks that there are many cases like this, in which

not only is the form itself entitled to the same name for all time, but also something else that is not that, but always, whenever it is, has the shape of that (e2-6: μὴ μόνον αὐτὸ τὸ εἶδος ἀξιοῦσθαι τοῦ αὐτοῦ ἀνόματος εἰς τὸν ἀεὶ χρόνον, ἀλλὰ καὶ ἄλλο τι ο ἔστι μὲν οὐκ ἐκείνο, ἔχει δὲ τὴν ἐκείνου μορφὴν ἀεί, ὅτανπερ ἡ; cf. 104c7-9).

He gives three sets of examples. First, we have fire and snow, which always carry hot and cold with them. Second, there are the numbers 1, 3, 5, etc., which always carry the form of the odd, and the numbers 2, 4, 6, etc., which always carry the form of the even (103e5-104eb5, 105c1-3, d5-e6, e8-105e1, 105e5-b1; see also the somewhat curious cases in 105b1-3). And last there, will be the soul, which always carries with it the form of life (105c9 end ff.).

He determines or defines (ορισώμεθα 104cl1, ορίσασθαι e7, ορίχη 105a2) these things as ones

which, whatever (thing) they occupy, 57 they force (that thing)

^{54 103} a6 gurd to crastics: 'the contrary itself' in Socrates' next speech.

⁵⁵ το έναντίον πράινα

⁵⁶ αύτὸ τὸ ἐναντίον

⁵⁷ a subject for avagaages, o'ts object of satages: so O'Brien,

to have not only its own (i.e., the occupier's) idea, but also always (the idea) of some contrary (10441-3: a ort ar arrange proper arapater gir autoù idear auto loger, alla sat evarriou (auto) del troc).

E.g.: what the idea of three occupies it forces to become odd (104d5-7); what fire occupies it forces to become hot; what the soul occupies it forces to be alive.

But that means, mays Socrates (105b5-8), that there's another case answer besides the one that mays momenting is F because it bears more unspecified relation to the form for F, namely (105b8-c7):

For if you ask no what it is that, when it comes-to-be in a body, that body is hot, I shall not state to you that Isefa but unlearned reply, that it is heat, but one more clever, based on what's just been said, that it is fire; nor, if you ask what it is that, when it comes-to-be in a body, that body will be sick, should I say that it is sickness, but fever; nor, if you ask what it is that, when it Icomes-to-be in a number, the number is odd, should I say oddnsss, but unit, and other things similarly.

εί μάρ ξροιό γε ὦ ᾶν τί ἐν τῷ σώματι ἐχτένηται θεργόν ἔσται, οὐ τὴν ἀσφαλῆ σοι ἐρῶ ἀπόκρισιν ἐκείνην τὴν ἀγαθῆ, ὅτι ῷ ᾶν Θεργότης, ἀλλὰ κομψοτέραν ἐκ τῶν νῦν, ὅτι ῷ ᾶν πῦρ' οὐδὲ ᾶν ἔρη ῷ ᾶν σώματι τί ἐχχένηται κοσήσει, οὐκ ἐρῶ ὅτι

"Last Argument" 214 (in the translation; on p. 215 he curiously says "We translate α as subject of εατάσχηι and ὅτι as object"), et al. Differently Gallop, PPhd 235f. n. 70: α object of εατάσχη, ὅτι aubject, giving "which whatever occupies them forces (them> to have. . ". Perhaps what Socrates says in 104d5-7 by way of clarifying his remark slightly favors this, but see O'Brien 215. I cannot agree with Gallop that "much hinges on the grammar and text at 104d1-3": the theory is perfectly clear from the examples, whatever we do with this sentence.

Taking αὐνά to refer to α. So Burnet, PPhd 119 ad d2: "There is nothing abnormal in the shift from plural (α) to singular in was wease like this. After an indefinite plural some such subject da 'any one of them' is often to be supplied. .."; he cites 70e5 (δσοις. . αὐνό), Lg ii 667b5-6 (ἄπασιν ὅσοις. . αὐνού) as parallel. So also O'Brien loc. cit. Archer Hind (PPhd 112 ad 11) objects: "To say nothing of the grammer, this makes sheer nonsense, representing the idea as the idea of itself." But Socratea has not said that the occupier has to be an idea, and, anyway, I fail to see the nonsense. He takes it to refer to δνι, as do, to judge from their translations, Bluck (PPhd 123) and Hackforth (PPhd 151). Against this, see O'Brien.

9 siτῷ seci. Stallbaum (p. 201), Ross (PTI 132), Hackforth (PPhd 194 ad 104d3), Gallop (PPhd 234 n. 71).

φ αν νόσος, άλλ' φ αν πυρετός οὐδ' φ αν άριθμφ τί 5 εξεένηται περιττός έσται, οὐα έρω φ αν περιττότης, άλλ' φ αν μονάς, καὶ τάλλα οὕτως.

The mechanism is this: there are certain intermediate entities, that always have one of a pair of opposite properties. These intermediates, when they come to be present in something, carry their properties with them, and their presence explains why the host entity in which they are present has those properties.

This is the theory suggested by the Lyois, having come out of its closet as unabashed immencatist metaphysics.

It is not that forms are imment in things: the intermediates are, and the intermediates need not be forms.

The earlier mafe explanation for x's being F was that x bears an unknown relation, 'participation', to the form for F. Now we are to may instead, momentumes, that x has in it y, and y partakes of the form F. The entities imported by the intermediates are, and are referred to as, forms (103e5 [quoted above], 104b9, d9-10).

In some cases, so are the intermediates: three, five, end so on are called forms (104d5-6). But no such thing is said about snow and fire. And the soul is treated, as a non-form throughout the Phaedo (see esp. 79de). The present argument is simple: the soul is an intermediate which imports the form life and so cannot admit the opposite, death; so it is deathless; so it is imperishable. Nothing here demands that the soul be a form.

(1) and (3) are of the same type; anyone who, like myself, finds it plausible to think that some of the intermediates might be forms and others not will be unmoved. As for (2), plainly to speak of an intermediate as importing its own form is not to imply that it is that form (contrast Archer-Hind, quoted in n. 58 above).

Here I follow Burnet PPhd 119 ad d1.

that they are" ("Postscript" [1956] 93 n. 14 = Allen [1965 290 n. 2). He offers no argument for this, but merely refers to 102b1-2, which is not relevant.

Keyt, "Fallacies" (1963) 168 n. 2 offers three considerations: (1) the tallness in us either withdraws or perishes, and so do fire and snow; (2) 103e5-6 speaks of the intermediate importing its own form, so there must be a form for fire; (3) Socrates' examples include fire, snow, disease, two, and three, so, since the last are ideas, the others ought to be. (So also O'Brien I"Final Argument I" 220-221) thinks that by 104e7-105b3 fire is "thought of to some extent as a form", because it is there listed with three and two for rather, with a topic and a duck, which O'Brien thinks are to be distinguished from to the tall the see that a see to be distinguished from to the tall the see that are to be distinguished from to the tall the see that are to be distinguished from to the see that are to be distinguished from to the tall the see that are to be distinguished from to the tall the see that are to be distinguished from to the tall the second that are to be distinguished from the tall the second the second the tall the second the sec

Again, see Burnet, PPhd 123 ad d3.

Hackforth (PPhd 163, 165) thought the soul had to be a form in this argument, but an 'immanent form'; he is helf-followed in this by Keyt, who mays "Plato treats the soul as if it were an

Consider the examples once more.

- a. The presence of fire in something explains why it is hot. On the face of it, the host entity and the intermediate are both physical.
- b. The presence of three or five in some number explains why it is odd. Neither host nor intermediate is physical; the intermediate is a form.
- c. The presence of soul in a body explains why that body is alive. Here the host entity is physical, the intermediate not, but still, not a form.

In the first case, we are close to Eudoxianism. We are not all the way there: what the intermediates import are still forms that are radically distinct from the intermediate entities and the host entities.

3.2.3 Stocktaking.

Suppose you were a working member of the Academy, and what you were working on was the question what to do with the theory of forms in the face of objections that focus on the relation between forms and ordinary things. You would reconsider the ways in which that relationship had been expiained. And in the course of that reconsideration, you would run into some passages which sound in one way or another Eudoxian, or at least immanentiat. And you might well ask: can the troublesome relationship be explained by taking this 'immanentiat' way of speaking seriously?

My suggestion is that both Eudoxus and Aristotle did just that, that Eudoxus came up with one version and Aristotle with another, that Aristotle did not think Eudoxus' was right, and that that is what he is saying in 1s24-25.

4. Eudoxus and Aristotle

There are two texts that tell us about Eudoxus' theory of forms.

4.1 Aristotle, Metaphysics A 9. 991a12-20

Aristotle has just complained that the forms, since they don't cause change, ($\tau \alpha$ cidq) can have no effect on the behavior of perceptible things (A 9. 991a8-11 = N 5. 1079b12-15). He continues as follows (991a12-20):

But then, they make no contribution in connection with the

knowledge of others things, either (for they are not the substance of these; for then they would be in them 64), nor toward their being, since they are not present in their

als participants; for Ithen they might perhaps be considered causes in the way that white is, being mixed into the white (thing), but this account which first Anaxagoras and later Eudoxus and certain others used to state, is very easily overthrown (for it is easy to collect many impossibilities against such a view):

against such a view); how again ware the other (things) a20 composed of forms lim any of the customary ways of speaking.

αλλά μην ούτε προς την επεστήμην ούθεν μοηθεί την των άλλων (ούδε χαρ ουσία εκείκα τούτων εν ταύτοις χαρ αν ήν), ούτε είς το είναι, μη ενυπάρχοντά το τοίς μετέχουσιν ούτω μέν

α15 'κὰρ' ἄν ΄ ἔσως αἴτια ἀδαειεντιείναι ως τὸ λευκὸν μεμιχμένον τῷ λευκῷ, ἀλλ' οὖτος μὲν ὁ Χόκος λίαν εὐκίνητος, ὃν Ανακαρας γὲν' πρώτος Εὐδοεος ὁ ὕστερον καὶ ἄλλοι τινὲς ἔλεκον (ῥάλιον κὰρ συνακακεῖν πολλὰ καὶ ἀδύνατα πρὸς τὰν τοιαύτην δόξαν) ἀλλὰ γὴν οὐδ' ἐκ τῶν εἰδῶν ἐστὶ τἄλλα α20 κατ' οὐθένα πρόπον τῶν εἰωθότων λέχεαθαι.

The forms fail on three counts: they do not bring about the motion (a11), the knowledge (a12-13), or the being (a13-14) of mundane objects. These are different sides of the same prism. For Aristotle, to know something is to know its substance or essence, and its substance or essence is its being, and knowing this involves knowing what causes its being. And when it comes to perceptible things, their being depends on their being subject to motion (see Met. Z 11. 1036b28-30). The claim that the forms don't cause the motion of the things that aren't forms is, then, tantamount to the claim that they don't cause them to be, and that, in turn, means that there's no knowing them. So Aristotle would think that a way around any of these difficulties was a way around all of them.

He suggests, indirectly, a way around the problem about knowledge (a13): if the form for, say, white were the <u>substance</u> of the various things here below that are white, knowledge of the form would be, or give you, knowledge of the white things. But then, he says, the form for white would be in the white things (for the inference, see 991bf-3; the substance of something can't

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immanent form" ("Failacies" 169). Schiller, "Phd 104-105" (1967), correctly rejects the idea that anything in the finel argument requires thinking of the soul as a form, or even thinking of it as if it were a form, but retains the apparatus of 'immanent forms'.

On the difference between this and M 5. 1079b15-24, see below p. 25.

⁶⁴ α13 ἐν τούτοις χὰρ ᾶν ἦν, α14 ἐνυπάρχοντα: cf. ἐν. . .ὑπάρχον Cat. 1824-25; see also the texts above with the fn. number 21.

We know nothing about who these might be. Leszl (II 'De ideis' 336), strangely, says that they are probably not Academics, or Aristotle would have said so.

See here Plato, <u>Parmenides</u> 133a-134e, Ross says: "This argument is met by Plato in <u>Parm</u>, 1340" (<u>AM</u> i 198 <u>ad</u> 12, 13), but even if it is the same argument (which is not clear to me), it is not <u>met</u> there.

I am assuming that Aristotle here uses 'substance' in a way that does not confine it to the first category.

be separate (xepic) from it). 68 And, at least in high Platoniam, the forms are not like that.

So his suggested way around the problem is: situate the forms \underline{in} their participants.

And, just as we expected, this is at the same time a way around the problem about being: the fact that the forms are not in their participants stands in the way of their contributing anything to the being of those participants (a13-14; cf. 992a26-29).

Aristotle is a committed immanentiat. But now he mentions an immanentiat position he rejects: you might think, he says, that once we have the form for white situated in the white thing, it makes 69 the white thing white by being mixed into it, like a pigment. And he ascribes this view to Anaxagoras and Eudoxus.

So Eudoxus is presented as having a global solution to the problems Aristotle has been raising for forms, which is very like Aristotle's own, but which is for some reason inadequate.

It has been argued that Eudoxus had nothing to do with theories of forms. It is true that Aristotle mentions Anaxagoras as stating the same view; Anaxagoras was not trying to respond to difficulties for the theory of forms, so the view is not inherently a response to such difficulties. But this is of no significance whatever. Anaxagoras' theory of ingredients has, we saw, a structural similarity to views of Plato's, and an onlooker at the Academy would be bound to wonder whether a revival and revision of Anaxagoranism would help to clarify the problematic relation which even Plato refers to as 'participation'. And that is precisely the way it is presented in Aristotle. Se even in

the ebsence of the passage in Alexander's commentary to which we shall shortly turn, it seems clear that Eudoxus was trying out this line.

But that commentary clinches the case: there were objections lodged against the view in Aristotle's Repl toews, and these treat the theory as a theory of forms. (This does not mean that one should accept Alexander's commentary as a report of the content of On ideas: see below.)

There is another misguided consideration that operates here. The Theory of Forms, that is, the high Platonic theory, sits so bedly with the idea that a form might be a physical thing that Eudoxus' enterprise looks like throwing out the beby with the bath water. And, indeed, it would be, if the object were saving The High Platonic Theory of Forms. But who wanted to do that? Not Speusippus, who rejected the theory and yet became the next head of the Academy. Not Aristotle, who has a theory of forms that stands in opposition to the high Platonic theory. Not even (at least, so I think) the later Plato, who had a theory that abandoned certain key tenets of the high Platonic theory; so did Xenocrates, perhaps the bastion of orthodoxy.

The important thing, for all but Speusippus, was the concept of a form: whatever it is that makes a thing F and is definable. The question was: what do forms have to be like? There is a partial answer to that question in the Phaedo and Republic; clearly no one at the time thought that those mighty dialogues contained the final word.

We have it from both Plato and Aristotle that it was open to argument what the relationship between forms and their 'participants' was (see above p. 16), and different determinations of that relationship will give drastically different theories. Eudoxus presents us with a determination of that relationship asphysical immenence. That will make a large difference to the kind of thing a form is.

So I shall speak of Eudoxus' theory of forms. There is, however, reason for dissatisfaction with the theory as it is usually presented: the contradictions between the theory of physical immanence and the Righ Platonic Theory are made to survive within Eudoxus' theory, in order to account for certain objections Aristotle may have raised against it. But I think the usual presentation is wrong, and that our texts can be accounted for differently.

The tradition tells us very little about this theory: even

See here Z 6. 1031b6-7, b20-22 (so Cherniss, ACPA1 377). But this goes from the obscure to the yet more obscure.

At least, so I understand him. There was some justice in Becker's finding a15-16, ως το λευκόν γεριβρένον τῷ λευκῷ, difficult to understand ("Eudoxos-Studien V" [1936] 389-391), even if there is no justifying his emending it to "ως τὸ λευκὸν γεριβρένω τῷ λευκῷ (scil. αἴτιόν ἐστιν)" (391); the emended text would mean: "as the white is a cause for the mixed white", where the first white is 'pure' white. Becker is attacked by Cherniss, with his usual vigor, in ΔCPΔ1 532-534; the only part of this attack I feel comfortable with is that concerned with the text, pp. 532f.

Leszl, Il 'De Ideis' ch. XXI, pp. 331-349. I am not impressed by Leszl's attempt to show that a hedonist could not have a theory of forms (337-339) or by his attempt to show that Eudoxus was too young to have had anything to do with the Academy (339f.). And he conceives the theory of forms as monolithic: he speaks of the 'typical doctrines of this school', that is, the Academy (337), and means: high-Platonism.

Chernias asserts, without argument: "The identification of Eudoxus' notion and the theory of Anaxagoras is due to Aristotle himself" (ACPA1 534). But the structural similarity is

there, and it would be surprising if Aristotle was the first to have seen it. Here, too, I am on Becker's side (see above, n. 69).

Contrast Cherniss, <u>REA</u> (1945) 85 (Plato "probably felt... that he had... expressed his meaning as clearly as words, spoken or written, can ever mirror the eternal truth") with Plato, <u>Phdr</u> 277d ("if Lysias or enyone else ever wrote or writes... thinking that there is any great clarity of firmness in it; that is a disgrece for the writer"). I am not subscribing to the view that there were secret doctrines in the Acadesy.

leas than it does about the metaphysics of Speusippus and Kenocrates. It is customary to suppose that this, and our failure to hear of works of Eudoxus in which the theory was exposed are indications that Aristotle's report is not based on a written text so much as what he had heard in the halls of the Academy. That sounds likely.

It is also sometimes said, as if it were the same point, that the position was not a fully developed theory but something Eudoxus tried on for size by way of handling problems about the participation-relation. It is not the same point. That an ancient Greek did not write a book about something is hardly an indication that he had no detailed theorizing to offer. The fact that Aristotle apparently never published a book on the material discussed in Mat. 2H8 shows that. But still, even if it is not the same point, it seems to me likely to be right. I should like to add the following.

There is one difference between the version of Aristotle's report in A and its doublet in M: the latter speaks, in 1079b20-22, of the account that "first Anaxagoras and later Eudoxus, in the course of discussing difficulties (auxopas), and certain others used to state". It will not do to lean too hard on a word, and 'auxopei'' is a vague one. The translation I have given is as strong as I can make it. Weaker ones would make Eudoxus even less committed to the view; he stated it 'to make trouble', e.g.

But the fact that the view was not propounded in a treatise in fourteen books, and was perhaps only one that Eudoxus reised in the course of dialectical discussion, is not a reason for not taking it seriously. Dialectical discussion was philosophical discussion for those people. And Aristotle took the view seriously enough to say that it was wrong.

What did he think was wrong with it? He does not say here. For this, we must turn to Alexander.

4.2 Alexander in Met. 97.27-98.24

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Alexander, in commenting on this passage, expands a little. He explains what he takes to be Anaxagoras' view (in Met. 97.14-17), and continues (97.17-19):

Also Eudoxus, among Plato's associates, thought that each thing> existed by a mixture of the ideas in the things> that have their being relative to them, and certain others, as he that is, Aristotle> was saying (kat Eudoto, two sampleus pites that is, and another and certain others, as he will be to the things of the contain others as he was saying (kat Eudoto, two sampleus pites that is, Aristotle> was saying (kat Eudoto, two sampleus pites that is, Aristotle> was saying (kat Eudoto, two sampleus pites that is, Aristotle> was saying (kat Eudoto, two sampleus pites).

This comment need not be based on anything more than the text being commented on, but when, a little later, he lists objections to which Aristotle might be referring, he makes it plain that he has something more to go on, for at the end of his list he says (98.21f.):

. . and <there are> the rest of the absurdities that he showed this view to contain when he examined it in the second

(book) of On Ideas (καὶ όσα ἄλλα ἐν τῷ ἀευτέρῳ Περὶ ἰἀεῶν τὴν ἀδάαν ταύτην ἐξετάζων ἐἀειξεν ἄτοπα ἔχουσαν).

Here is an annotated translation of the objections Alexander gives (97.27-98.24):

And (to show) that other things (do) not, as Eudoxus and certain others thought, (exist) by mixture of the ideas (in them), he says it is easy to collect many impossible consequences of this view. They would be such as these:

If the ideas are mixed with the other things,

(1) first, they would be bodies, lfor mixture is of bodies.

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⁷³ E.g., von Fritz, "Ideenlehre" 19; Lasserre Fragmente 149.

Philippson, "Akademische Verhandlungen" (1925) 2; von Fritz, loc. cit.; Karpp, Untersuchungen 5; von Fritz, rev. of Karpp (1935) 413 ad fin. On the other hand, in Becker, "Eudoxoa-Studien V" (1936) it is a full-scale theory of color. So it is in Gaiser, "Platons Farbenlehre" (1965) 198. According to Lasserre Fragmente 270, Gaiser's arguments only make this a possibility.

An idea of Karpp's (<u>Untersuchungen</u> 34 n.12), but often forgotten or muddled (see next n.).

⁷⁶ Cherniss notes the difference (<u>ACPA</u>1 525), but, as far as I can tell, makes nothing of it. Lasserre, <u>Die Fragmente des Eudoxos</u> (1966) prints 991a14-19 as D 1, p. 12; he does not note: 'the discrepancy (indeed, he says "= 1079b18-23"). Guthrie, <u>HGP</u> v 453, comments on διαπορῶν but acts as if it is to be found in Λ (see also p. 452).

⁷⁷ Syrianus' report on K speaks of "the problems raised by Eudoxus about such things" (<u>in Met</u>. 117.3-4: τὰ Εὐδόξω περίτινων τοιούτων ἡπορηγένα), but this is of no independent evidential value.

⁷⁸Ross (AN i 198 ad 9) gives 'to raise a difficulty', 'to work through the difficulties', and 'to establish by discussion of the difficulties' as possible paraphreses for different occur-

rences of diamoper. The question is whether Eudoxus would fall under the first or the third of these senses; Ross himself classifies the occurrence in 1079b21 under the first head (loc. cit.; he has no comment on it ad loc.). But this is hard to see: the idea that a form is a physical ingredient is not by itself an objection against enything.

Gf. Top. Z 12. 149b1-2. 149a38-b3:

Again, <see if> that of which <your opponent> has rendered an account is among the things that are, while what

- (2) Again, they would have contrariety toward each other; for mixture is in accordance with contrariety.

 (3) Again, they will be mixed either and the contrariety.
- (3) Again, they will be mixed either as a whole in each of the things in which they are mixed or as a part.
- (a) But if as a whole, what is one in number will be in many (things); for the idea is one in number;
- (b1) but if as a part, that which partakes of a part 5 for the man-itself, not that which partakes of the whole of the man-itself, will be a man.
 - (b2) Again, they will 86 divisible and partible, 85 although they are impassible.
 - (b3) And next they will be homoeomers, if all the things

<falls> under the account is among the things that are not, e.g. if the white is idefined as color mixed with fire; for it is impossible for the bodiless to be mixed with a body, so that color mixed with fire will not be; but white is.
(The Greek for b1-2: ἀδύνατον χὰρ τὸ ἀσώματον σώματι ρεγείχθαι.)

With (1)-(2) cf. <u>Met</u>. A 8.989b1-2, <u>De gen. et corr</u>. A 10. 327b20-22, and <u>Met</u>. N 5. 1092a24-26 (see below, p. 33).

Aristotle himself is prepared to relax the atrictures: in De caelo A 9, 277b33-34 he says ἔτερόν ἐστιν αὐτὴ καθ' αὐτὴν ἡ γορφὴ καὶ μεριγμένη μετὰ τῆς ὕλης, and at 278a14-15 καὶ τὸ μὲν ὡς εἰδος καὶ μορφή, τὸ ἀ' ὡς τῆ ὕλη μεριγμένον. Cherniss (ACPA1 535) cites these passages; Düring cites the first one (Aristoteles 253 n. 54) without, apparently, understanding its significance.

- Cf. De gen. et corr. A 10. 328a31-32; this in turn is based on A 7. 323b28-29, 29-324a9, 324a11-12. See also Alexander, De mixt. 229.9-12, which contains phrases from A 7.
- 98.2-9 is a dilemma with several absurdities tacked on to the second horn. See Cherniss, ACPA1 530; Berti, La filosofia (1962) 236; Leazl, Il 'De ideia' 50. But Chernias retains the enumeration of the arguments assumed by von Fritz ("Ideenlehre" [1926/27] 8 et passim) and Karpp (Untersuchungen [1933] 30, etc.), in which (3b1) and (3b2) are the 4th and 5th objections. I have preferred to follow Berti and Leszl. There is one substantive point that turns on this question: see below, text at n. 101.
- 82 Cf. Met. B 6. 1003a7-12, Z 14. 1039a33-b2; Pl. Prm. 131ab.
- Reading pépous, von Fritz' emendation for pépos ("Ideenlehre" 15), with Rosa, Harlfinger (in Leazl, Il 'De ideis') et al.
- Cf. Pl. Prm. 131c, 131d; Net. A 9. 992a6-7.
- This is another consequence of (3b) rather than a new argument: as von Fritz remarks ("Ideenlehre" 15), one expects the outer rather than just the.
- 86 Cf. (för ἀπαθεῖς) <u>Τορ</u>. Z 10. 148α20.

that have any part of one are like each other; S7 but how can the forms be homosowers? For the part of a man can't be a man, as the part of gold is gold.

90 (4) Again, as the himself says also a little farther on, in each thing there will be not one idea mixed but aday; for if there is one idea of animal and another of man, and men is both animal and man, he would partake of both ideas. And men-itself, an idea, insamuch as it is also animal, would itself partake of the animal; but then the ideas would no longer be simple, but composed of many (things), land some of them would be first and others second. But if it is not animal, how could it fail to be about that

(5) And again, if they are mixed into the things that are relative to them (πρὸς αὐτά), how would they still be paradigms, as they say? For paradigms are not thus causes of the likeness of their images to them, by being mixed into them.

(6) And again, they would be co-destroyed with the 0 things in which they are, when these are destroyed. But Ithey would not exist as separable, in their own rights (καθ΄ αὐτάς)3 but (would exist) in the things that participate in them.

(7) And in addition to these, they would no longer be immovable;

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Cf. De gen. et corr. A 10. 328a10-12.

 $[\]frac{88}{100}$ During (Aristoteles 253 n. 55) counts this as two objections.

This is ambiguous, as is the Greek, between "as he also says later" and "as he says later also" (see Chernias ACPA1 527 and next n.).

^{90 98.9-10} ως και αυτός όλίχου προελθών λέχει. <u>Met.</u> A 9. 991a27-b1 = M 5. 1079b31-35. These words caused Karpp (<u>Untersuchungen</u> (1933) 29-30) to think that, up to this point, Alexander was providing objections of his own:

During (<u>Aristoteles</u> 253 n. 55) counts (4) as three objections, and refers for all to <u>Top</u>. Z 6. 143b23, which is not relevant.

Karpp also (see n. 90 above) rejected this as a formulation of Alexander's (Untersuchungen 33-34).

Karpp (Untersuchungen 30), Cherniss (ACPA1 526), During (Aristoteles 253 n. 55) and Lasserre (Fragmente 13) count this as two objections. The lack of a connective makes it harder to read as one objection, but not, I think, impossible. I am here in agreement with Leszi, Il 'De ideis' 50.

Cf. Top. B 7. 113a24-32 (below); Z 10. 148a14-22; <u>Net</u>. B 2. 998a14-15. 113a24-32;

Or (see) if something has been said of something such

. The seands there are as many other absurdities, as the showed and this view to involve in examining it in the second book of On 'ideas. For this is why he said "for it is easy to collect many ignossible things against this view"; they are collected there.

We must first deal with the question; how much of this can we take as Alexander reporting objections of Aristotle' from the lost Nepi Laeûr? The second statement of the second

Scholers have resorted to some strange devices to reassure themselves here. Von Fritz undertook a comperison between Alexander's immediately preceding objections egainst Anexagores and those of Aristotle in Phys. A 4 in order to test Alexander's reliability as a reporter. Let wis consider this as D:

Aristotle in that chapter gives eight objections against Anexagores (187b7-188a18halakander gives two objections. One of them is that Anaxagoras does away with coming-to-be (in Met. 97.25-26). This is not an objection of Aristotle's, but part of Aristotle's statement of Anaxagoras's position (Phys. 187a28-29, 34-35). The other of Alexander's objections (97.22-25) is that, since the components of a mixture must be separable, Anaxagores makes white, an accident or affect of a substance, separable from it; but that's (on Aristotelian grounds) impossible. There is nothing in Phys. A 4 that this points atraight at. But Aristotle's sixth objection (188a5-13: discussed below, pp. 37-39) is to the effect that Anexagores doesn't understand why the components of

that when it is so necessarily (contrary things belong: e.g. if he has said that the ideas are in us (tag theag er herr . . . (Frat) for it will follow that they move and rest, and again are perceptible and intelligible. For the ideas are thought to rest and to be intelligible by those who posit ideas; but being in us it is impossible for them to be unmoved; for when we move, necessarily talso all the things that are in us move along. And it is clear that they are perceptible, if they are in us; for by means of the perception that pertains to sight we know the form in each thing.

95 Cherniss (ACPA1 526) quotes 98.21-24 and states "This of itself would indicate that he drew his whole list from that work of Aristotle's"; surely that is to place too much weight on the words. But it is apparently this that inspires Lasserre's outrageous exaggeration to the effect that Karpp's view that the first meeven objections (the first five in my enumeration) are Alexander's own and not A's "widerspricht offen der Überlieferung" (Frankente 150). Even the more moderate view (Karpp's: Untersuchungen 30) that the words indicate; that the immediately preceding objection(a) come from the flept tacer is wrong. Specking of "these and all the other apples in the basket" does not presuppose either that these appless are in the basket, or that they are not in the basket. And we shall see that this is true of Alexander's use of see žλλα as well: see below, p. 30. the second marketing of the

"Ideenlehre" 2-6.

his mixture eren't separable: it isn't because of the argument we considered above (based on the claim that you can, eventually, get anything out of anything), but because the effects of a substance are not separable. This and Alexander's point are related, but

Plainly, if Aristotle's Physics had not survived, we would not have had the faintest idea what happened in the fourth chapter

Yet gyon Fritz managed to persuade himself, and, apparently, Cherniss, that Alexandershad got Phys. A 4 essentially right. He simply failed to notice that what Alexander was paraphrasing was, not Physics A 4, but avapassage three columns earlier in the Metaphysics (A 8. 989a34-b4), in which Aristotle does state the second of Alexander's objections (as I have listed them), although Alexander manages to run two objections into one (see 989b1-2, 52-3, with in Met. 97.22-25).

So, pace von Fritz and Cherniss, Alexander is making no ettempt to paraphrese from the Physics. And yet he does close his objections to Anaxagoras with the words "and there are as many other things as he <that is, Aristotle> has stated in the first book of the Physics against this view" (97.26-27).

Our passage closes with the words "and there are as many other abaurdities as he showed this view to involve in examining it in the second book of Onsidess". The received opinion (see n. 95 above) is that these words indicate that Alexander's list of objections against Eudoxus are drawn from On ideas. The case of the reference to the Physics shows that this is completely false. There is no assurance that any of the objections come from On ideas.

And the words with which Alexander opens the objection I have listed as (4) are ominous: "Again, as he himself says a little farther on" (98.9-10; (ἔτι, ὡς καὶ αὐτὸς ὁλίχον προελθών λέχει): the reference is forward in the Mataphysics to a passage (see in. 90 above) in which Aristotle gives schething like objection (4) as and objection egainst Rietonizing positions in general. If we had only that passage, thereswould not be the slightest reason to think that the objection it registers could be applied to the position Aristotle escribes to Eudoxus.

There is a general point to be sade here; adducing Aristotelian parallela such as those given in the notes above for objections on Alexander's list will not silence Kerpping critica (see n. 90 above). For the parallels do nothing whatever to guarantee that Aristotle himself thought that these objections were applicable against Eudoxus's position, and a fortiori do nothing to guarantee that he applied those objections against that position in the lost work On ideas.

And there is a specific point to be made as well. The ominous just adverted to are, granted, not a proof that 'he himwords just adverted to are, granted, " self' has not been speaking all along. But they are echoed two 127 76 W. S. S.

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⁹⁷ ACPA1 530.

⁹⁸ To Cherniss, <u>ACPA</u>1 526-527.

pages later. 99 Alexander is listing the ways in which, as he sees it, the Platonists tried to make participation work. He says (100.27-34):

For, investigating in what way the partaking of the forms (might work), either they say it is such that in each of the particulars the idea is present, e.g. in each of the particular men there is the man-itself, or (they say that) in each (there is a) part of the idea, or (the form is a paradigm for its participants. Of which the first two ways of partaking are impossible, as we showed a little way back, and he himself said when he mentioned Eudoxus that "it is easy to collect many impossible things against such a view".

(100.30-34: ὧν οἱ μὲν πρώτοι δύο τρόποι τῆς μετοχῆς ἀδύνατοι, ὡς ἡμεῖς τε ἐδείξαμεν πρὸ ὁλίχου, καὶ αὐτὸς εἶπεν Εὐδόξου μνημονεύσας ὅτι "ρ'α διον συναζαχεῖν πολλὰ κοὶ ἀδύνατα πρὸς τὴν τοιαύτην δόξαν".)

The proof that "the first two ways of partaking are impossible" is the long dilemma I have numbered (3) (98.2-9). Alexander here refers to this argument when he says "as we showed", and goes on to a new objection to say "and he himself said", and cite the Metaphysics. The first "he himself said" was ominous. This one, with its contrasted "we showed", seems to me funereal. Argument (3) is a construction of Alexander's.

So Alexander did not, when he came to the reference to Eudoxus, dutifully go to the stacks, pull down the roll containing.

On ideas if, acroll his way laboriously to the objections against Eudoxus; and transcribe them into his commentary, any more than he went to the Physics when he encountered the reference to Anaxagoras.

We cannot use Alexander unconfirmed, and it is not enough to confirm him to find an Aristotelian parallel, But if we can find the right kind of parallel, we may have something we can use. For Alexander is working, as always, with Aristotelian materials, and has read, as we have not, On ideas, and does say that there are objections against Eudoxianism in that work. What does that leave us with?

Almost precisely the list that Karpp pronounced genuine, 160 I think, although not precisely for his reasons, He believed that the words "as he himself bays a little farther on" meant that all the objections up to and including my (4) came from Alexander. This is too sweeping: those words only cast doubt on (4) itself. The words that recall them a page later carry (3) into the same limbo.

The others require individual consideration. I take them up in order of increasing interest.

Objection (2) is an obscure one. As it is standardly read, it tells us that, since mixture is between contraries, if the ideas are mixed with sundane objects they must be contrary to them. The premise here, that mixture is between contraries, is one of the more arcane points in Aristotle's doctrine of mixture proper (pitc), or 'chemical combination' as it is sometimes called, as opposed to blending (spart):105 It is apparently mentioned just once in all of Aristotle. But it figures much more largely, as Karpp notes, in Alexander's theory of mixture. So there is no particularly good reason to suppose that Aristotle used this argument against Fudoxus, in On ideas or anywhere else.

There is reason to be suspicious of (5). The criticism of the ideas as paradigms, in Aristotle's Metaphysics, occurs immediately after the criticism of Eudoxus (991a20-22):

But to say that (the forms) are paradigms and that the other things partake of them is to speak emptily and to speak in postic metaphore (τὸ ἀξ λέχειν παραδείχματα αὐτὰ εἶναί καὶ γετάχειν αὐτῶν τάλλα κεναλοιεῖν ἐστὶ καὶ γετάφορὰς λέχειν ποιητικάς).

The contrast introduced by the 'but' (ài) at the beginning of this is with the position announced as that of Anaxagoras and Eudoxus (the yer in 991a14). That is, the way the grammar makes it go, Aristotle is saying that, on the one hand, there is the position that regards the form as a physical ingredient in its participants, and on the other, there is the claim that it is a paradigm; there are lots of objections to the first, and the second is senseless. He seems to think of the ingredient picture

I think this may have been first pointed out to me, years ago, by G.E.L. Owen.

The only difference is that the last two objections he counts as three.

This is the substantive point mentioned in n. 81 above.

Von Fritz, "Ideenlehre" 9-10, followed by Cherniss ACPA1 525;
Lasaerre Fragmente 150; Leszl, Il 'De Ideis' 341-342; Ianardi
Parente, Studi 135. But von Fritz Pooks to Phys. A 5-6 to
explain how mixture requires contrariety, which is wrong, and
does not seem to realize that the passage that has to be
looked at is in De gen. et corr. A 10 (see n. 80 above).

But it is there, contra Isnardi Parente, Studi 135 n. 191.

See Joachim, "Aristotle's Conception of Chemical Combination" (1904) (for the contrariety condition, see 79-80); Partington, HC (1970) (who seems not to mention the contrariety condition); Bolzan, "Chemical Combination" (1976) (see 136); Bogaard, "Heaps or Wholes" (1979) (see 19).

See n. 80. At any rate, this is the only passage I know of, and only it and the presumed fragment from the Nepi lacuv are mentioned in Bz Ind. 469b41-42...

¹⁰⁶ See Repl πράσεως και αυξήσεως 229.9-11 and the subsequent discussion to the end of ch. XIII.

⁰⁷pér in al6 is picked up by côdé al9, and there is another
pér/dé pair at the middle of it all, al7.

as an alternative to the paradigm picture. If Alexander is remembering something from On ideas here, it is all too likely to be on a per with his 'remembering' that Aristotle criticized Anaxegoras for ruling out coming-to-be: Aristotle might merely have said that Eudoxus suggested that the relation of form to instance was not that of a paradigm to its image, but physical ingredience. Anyway, it would be strange if one of the objections he has to the physical ingredient picture is that it rules out the talk of paradigms.

(1) tells us that, on this view, the forms would be bodies, since mixture is only between bodies. There is material in Aristotle (see n. 79) that shows he thought the argument sound. And in an obscure passage in Met. N 5, he may be employing it against some Platonists. There the question is "in what way number is composed of its principles" (1092a23-24); the principles are the One and the Indefinite Dyad. Aristotle says (1092a24-26):

Is it by mixture? But not everything is mixeble, and what comesto-be: is different, and then one will not be separable of a different nature, but they want (it to be) (πότερον μίξει; ἀλλ' οῦτε κῶν μικτόν, τό τε χιμάμενον ἔτερον, οῦκ ἔσται τε χωριστόν τὸ εν οῦδ' ἐτέρα φύσις! οἱ δὲ ροῦλονται).

As this passage is standardly understood, the first objection is to the effect that only bodies are capable of mixing with each other, so the One and the Indefinite Dyad can't mix.

Suppose this is right, and Aristotle was prepared to use the claim that mixture is only between bodies against Platonists. It does not follow that he used it against Eudoxus. First off, the positions attacked are quite different. The Platonists under scrutiny in N 5 are not saying that the number 5 (say) is one and also indefinitely dyadic due to the presence of the One and the Indefinite Dyad as ingredients in them. And what is more important, these Platonists would presumably have quailed at the idea that the One and the Indefinite Dyad were bodies. But if Eudoxus was trying out the idea that the forms were physical ingredients in things, the comment that physical ingredients are themselves physical is less an an objection to the idea than a clarification of it.

This latter is a feature of many of Alexander's objections, and it demands attention. Many of the objections look like reductions and absurdum. But for a reduction to absurdity to come off, the alleged absurdity must be either admittedly or arguebly a real absurdity. Charniss apparently supposed the former: that Eudoxus would have admitted that it was absurd that forms should be bodies, or divisible, or whatever. This is, at least in part,

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because Cherniss thinks that these things just are ebsurdities. But the effect is to saddle Eudoxus with a position that is simply contradictory. And this Cherniss admits.

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My own inclination is to think that, if Eudoxus is suggesting that the forms are physical ingredients of things, it cannot be to him obviously absurd to suupose that they are themselves physical. The spectre this raises is that we may be left with nothing: could not Eudoxus simply have accepted all of the supposed absurdities as part of his position?

This free-wheeling attitude ignores the other way a reductio can be made to work: if the alleged absurdity is something that is arguebly an absurdity, and in particular something that we know Aristotle would have argued to be an absurdity, we may be able to keep going.

We are close to this situation with objection (1). Eudoxus' theory is the extended theory of the Phaedo, with the intermediates of that theory taking over the role of the forms: that is, on that theory fire imported the hot into the host body; on this one, the hot is just a physical constituent of the host body. But that makes for a difficulty. The theory is a theory of predication, albeit a restricted theory, only accounting, easit stands, for physical predications. The extended theory of the Phaedo used an intermediate entity, fire, that was itself hot; this was used to explain why a certain glowing piece of wood (say) was hot: there's fire in it. When it comes to the question why fire is hot, the Pheedo theory told us that that was due to the unexplained relation labeled 'participation' between fire and the form, The Hot. On the theory we are handing Eudoxum, the reason the stove is hot is that it has something in it that is itself hot, but this is not an intermediate: it is the form, The Hot. But then we are allowing that this ingredient. The Hot, is a body, a physical ingredient. But then there is a physical predication that the theory must leave unexplained: the one that predicates hot of this ingredient body. One might well feel that a theory that ascribes the fact that a body is hot to the presence in it of another hot body is either empty or headed for a regress.

There is here an echo of some of the difficulties that Academics reised against the High Platonic Theory. But we can hardly read all of this into (1), so I shall persist in scrapping (1).

That leaves us with (6) and (7). Is there any reason to think that Aristotle might have used them against Eudoxus?

In (7), we are told that Eudoxianiam makes the ideas no longer immovable (ἀκένητοι). We might think: well, why not? If we're prepared to allow that the form might be physical, why shouldn't we allow it to be movable?

But: forms, if they are anything, are objects of definition. The account Aristotle gives us 12 of Plato's development of the theory of ideas or forms has him separating the forms from ordin

Ross, AM ii 490 ad 24, followed by Cherniss ACPA1 530.

The second is to the effect that when a mixture has taken place, the result is new, and the ingedients are no longer there in actuallty, but only in potentiality (Ross loc. cit.).

This may be relevant later.

As Cherniss (loc. cit) thinks.

¹¹¹ See ACPA1 532.

¹¹² In <u>Mot</u>. A 6. 987a29-b14, N4. 1078b12-32 (a doublet of the first passage), N 9. 1086a24-b4.

nery things on precisely this ground; ordinary things are constantly changing, but definitions have to nail down something stable. And the stability of forms is something Aristotle requires of his own theory of forms; when the wood gets hot

the motion is plainly in the wood, not in the form <that is, the hot), for the form. . . neither moves nor is moved (Phys E 1: סטירב במה אניבנ הטירב אניבניתנו ים בנשטק).

And when it gets white

it is not the white that comes-to-be but the wood comes-to-be white (Met. 8 5. 1044b23-24: ob jap to heuser gigretat - abba to €ύλαν λευκάν);

in this example white is given as an example for "forms and shapes" (τὰ εἴὸη καὶ αὶ μορφαί b22-23).

So here the parallel in Topics B 7 (see n. 94 above) can be taken seriously: Aristotle did think that a physical ingredient in something was subject to motion when the thing itself was. And this is a response to Eudoxianism, if not to Eudoxus himself.

It raises an obvious question about pots calling kettles black: doesn't it apply to Aristotle's own theory, according to which certain attributes are in their possessors? I shall not stop over this for long, since I have nothing to add to an enswer Owen proposed: Affatotle can distinguish between something's moving in its own right and its moving per accidena; his attributes don't move in their own rights, "and if they are said to move per accidens this is in a sense still weaker than that in which any physical part of the moving body does so". Owen cites Phys. A 4. 211a17-23: there Aristotle says that whiteness and knowledge (4) λευπότης και ή έπιστήρη α22), by contrast with the nail in the ship, are always moved accidentally: "this is how they change place, because what they are present in changes place" (a22-231: ταθτα χὰρ ούτω μεταρέρληκε, ὅτι ἐν ῷ ὑπάρχουσι μεταράλλει).

That brings us to (6). This reads (98.19-20):

Again, (the ideas) would be co-destroyed with the things in which they are, when these are destroyed. But they would not exist as separable, by virtue of themselves, but (would exist) in the things that participate in them. (ξτι τε καί συμφθείροιστο αν τοις έν οις είσι φθειρομένοις. άλλ' οὐδὲ χωρισταί αν εζεν αὐταί καθ' αὐτάς, άλλ' έν τοῖς μετέχουσιν αὐτῶν.)

And it appears to tell us the following.

The premiss to be reduced to absurdity is Eudoxienism:

(E) The form F is sixed into things that are F. We need two ancillary premisses:

(P1) What is mixed into things is co-destroyed with them.

(P2) What is co-destroyed with certain things is not separable

And then, from (P1) and (E), it follows that

(C1) The form F is destroyed when the Fs are. And from this and (P2)

(C2) The form F is not separable from Fs.

" "If this enelysis were correct, we should have to reject objection (6) as well as most of the others.

(P2) tells us that, if you have x and y, and there is no way of getting rid of y that does not carry x along with it, then x ta not separable from y. The author of objection (6) take, it, thought that 'true by definition (of 'seperable'). This could be Aristotelian, although the term 'co-destroyed' is unusual (I shall return to this).

6 2- But (P1) is not, in general or in Aristotle, true: a thing can be destroyed by being broken down into its components, and then they survive it. We find Aristotle saying (Met. B 4, 1000b25-

EAll things are destroyed into the things" of which they are "composed (πάντα μάρ φθείρεται είς ταθτ' έξ ων ξστικ).

And the objection to Eudoxus here, understood as above, would simply contradict Aristotle's objection to Anaxagoras elsewhere. As Alexander records the latter objection, it is to the effect that the ingredients of a mixture are 'separate and capable of being in their own rights' (τῶν ζὰρ κεχωρισμένων καὶ καθ' σὐτὸ ὑφίστασθαι ἀυναμένων ἡ μίξις 97.23-24). This is a formulation that improves on its original (Met. A 8. 989a34-b4). But it also brings the contradiction out quite clearly.

Second, why should Eudoxus have thought (C2) an absurdity? If Eudoxus was prepared to give up as much of the High Platonic Theory as he has already, why shouldn't he give up the famous separateness of the forms as well, and go over to the Ariatotelian. camp, at least on this score? .

And then we might find in the unusual term 'co-destroyed' fuel for our doubts. The word is absent from Bonitz' Index. It is used by the Stoics in connection with their conception of mixture. and it plays a central tole in Alexander's attack on that conception. For example, he says (De mixt. 221.20-25):

But if, according to what is said by them (the Stoics), it is necessary that the things blended be inseparable from each other (for (they say) that the total blend cannot come-to-be apart from co-destruction, and they say that things co-destroyed are inseparable), but we see them separated in some cases, it is clear that the blending cannot come-to-be in the way it is said to by them (εί δὲ κατά μὲν τὰ λεξόμενα ὑπ' αὐτῶν ἀχώριστα άλλήλων άναμεαίον είναι τὰ εεπραγένα (ού μάρ δή οξόν τε την δι όλων κράσιν χενέσθαι χωρίς συμφθάρσεως, άχώριστα δέ φασιν εξίναι τὰ συνεφθαρρένα), όρωμεν δὲ ἐμ' ἐνίων χωριζόμενα, δηλον ως οὐε

¹¹³ Cf. Net. K 7. 1067b9-11.

See Owen, "Dialectic" (1968) 110-111.

Then why doesn't Aristotle allow Eudoxus this distinction? Owen 111: because it's Aristotle's. I am not professing to be satisfied with this.

αν ή ερασις μένοιτο κατά τον ύπ' αύτων είρημένον τρόπον).

This case against (6) is my own. I propose to destroy it anyway.

Start at the last point, which is a red herring. The term 'co-destroyed' is not used by the Stoics, or by Alexander discussing them, in the way objection (6) uses it. The ingredients in a Stoic 'total mixture' are 'co-destroyed' into the mixture. objection (6), the question is whether the ingredients in a mixture are co-destroyed with the mixture, that is, when the mixture

And the word is in Aristotle. In Top. 2 13 he discusses various things to look for when you are trying to defeat an opponent's definition, where the definition is one that treats its object as having parts. In 150a33-36 he says:

Again, (see) if the parts are co-destroyed with the whole: for, on the contrary, it ought to turn out that when the parts are destroyed the whole is destroyed, but when the whole is destroyed it is not necessary that the parts be destroyed (mixit εί τῷ ὅλω συμφθείρεται τὰ μέρη ἀνάπαλιν χὰρ χὴ συμβαίνειν, τῶν μέρων φθαρέντων φθείρεσθαιτό όλον, του δ' όλου φθαρέντος οὐε άναχκαίον και τὰ μέρη έφβάρθαι).

From this we can see Aristotle's response to a Eudoxian who proboses simply to bite the bullet and concede that the forms, thought of as physical parts of things, are not separable. He would argue that they must be separable: not because we are discussing Platonic forms, which must be separate, but because we are talking about physical mixtures, and parts or ingredients of such a mixture are separable from it. This is his complaint against Anaxagoras in Met. A 8: if Anaxagoras were right (989b3-4);

the affects and accidents of substances would be separable (for there is mixture of just those things of which there is " separaτίοη) (τὰ πάθη καὶ τὰ συμβεγηκότα χωρίζοιτ' ἄκ τῶν οὐσιῶν (τῶν γάρ αύτων γιείς έστι παι χωρισγός)]

But all of this makes it obvious that we cannot have (P1). To see what we must replace it with, let us take a closer look at Aristotle's attack on Anaxagoras in Physics A 4. 188a5-13:

a5 That <they> will never be disjoined 117 is not said with reason, but 18 it is said truly; for the affects are inseparable ; so if colors and states are mixed, if they

are disjoined, there will be something white and healthy that is not something else or <said> of a subject. So that <Anaxagoras'> mind is absurd, attempting things that ere all impossible, if it wants to disjoin (them) impossible to do this, both in quantity and in quality: in

quantity because there is no least againtude, and in quality because attributes are inseparable

τὸ δὲ μηδέποτε διακριθήσεσθαι οὐκ εἰδότως γεν λέχεται, όρθως δε λέχεται τὰ χὰρ πάθη ἀχώριστα΄ εί οὖν γέριαται τὰ χρώρατα καὶ αί ἔτεις, ἐὰν διακριθώσιν, έσται τι λευκόν καὶ ὑχιείνον ούχ ἔτερόν τι ὃν οὐδὲ καθ' ὑποκειρένου. ώστε άτοπος τα αδύνατα ζητών ο νούς, είπερ μούα10 λειαι μέν διακρίναι, τούτο δέ ποιζοαι άδύματον και κατά

τὸ ποσὸν καὶ κατά τὸ ποιόν, κατά γὲν τὸ ποσὸν ὅτι οὐκ ἔστιν έλάχιστον μέχεθος, κατά δὲ τὸ Μοιὸν ὅτι άχώριστα τά πάθη.

This is a complex objection; I shall not try to explain all of it. The transfer of the state of the stat

Part of it is this. On the face of it, things that are mixed together need not be mixed together. Anaxagoras has given us an argument, to show that the ingredients can't be extracted pure: if they were, then you would have some pure white, and then you couldn't get any blood out of it; but you can get anything from anything, aconer or later. But this does not, in fact, explain why you can't extract the white. The theory provides nothing that explains what stops you from getting the white out.

But there is more. Anaxagoras idea that white and healthy are ingredients of a thing does not mean that there is something, say blood, that is healthy and is an ingredient in the mixture. and something else, say the thing's surface that is white, and so on. These ingredients are identified as white and healthy, and there is no further question as to what it is that is white or healthy.

To Aristotle, this is an impossibility; something white is always agmething specifiable -- snow, a stick -- that is colored white. Anaxagoras thinks that the white is inseparable from his

άπεκρίνετο, καὶ ἄσον ἐκίνησεν ὁ νοῦς, πᾶν τοῦτο διέκριθη' εινουμένων δὲ καὶ διακρινομένων ή περχώρησις πολλῷ μάλλον έποίει διακρίνεσθαι.

The second clause might also be translated "there was an unjoining from all that was moved", where the subject is not mind. K&R eds. 1-2 (373 t 504) have the latter, as does Schofield in Essey 154 n. 45. But in KR & Schofield (364 t 477) it is translated as above. Cleve, PhAxq 43, has "on the part [axi] of the whole soved [district] severance took place" (repeated on p. 55).

See, e.g., Todd, Alexander on Stoic Physics (1976) 50.

See Anaxagoras 5986 at DK 35.25, 16-17, 5988, and B12 at DK ii 39.2-4 (the latter two are cited by Simplicius in his commentary at this point, in Phys. 175.11-14; all are quoted above, p. 4).

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See here Anaxagoras fr. 13 (= DK ii 39.13-17): And when mind began to move (things), (it) was unjoined from everything that was being moved, and whatever mind moved was disjoined; while things were being moved and disjoined, the rotation was making (them) disjoin much more. 10 και έπει ήρεατο ο νους κινείν, από του κινουμένου παντός

mixture: he is right that it is inseparable, but it is so because of this impossibility, not because of the alleged impossibility of there being anything from which any of the ingredients is absent. If it were a mixture, the elements would, in fact, be separable.

This charge transfers to Eudoxus. Aristotle would be asking Eudoxus: just what is this physical ingredient whose presence in something makes it white? In the extended theory of the <u>Phaedo</u>, it was fire whose presence in something made it hot. But in your theory, the only answer to the question 'what makes white things white?' is: 'it's white' But, as I explained in <u>On length and shortness of life</u> (<u>Long</u>, 3, 465b12-14);

for while it is possible for the hot or the straight to be in the whole (of something), but it is impossible that all it is is hot, or straight or white; for then its properties would be separable (παντί μέν τὰρ ἐνείναι τὸ θερμὸν ἢ τὸ ἐὐθὺ ἐνδέχεται, πῶν δ΄ εἶναι ἀδύνατον ἢ θερμὸν ἢ εὐθὺ ἢ λευκόν ἔσται τὰρ τὰ πάθη κεχωρισμένα).

Or, as I put it in the Posterior Analytics (A 22. 83a30-32):

Things that don't signify a substance have to be predicated of a subject, and there's nothing white that isn't something else that is white; the forms can be dismissed, for they're nonsense (out as his obstant something else that is white; the forms can be dismissed, for they're nonsense (out as his obstant something else that is white; the forms can be dismissed, for they're nonsense (out as his obstant something else that it is not be not the form of the f

And that's just as much true of your theory of forms as of the original.

Then the premiss we need for objection (6) is not (P1): it is not the fact that white is an ingredient in the mixtures that are white things that makes it co-destroyed with; and hence inseparable from, the white things, but the fact that it is white. When you erase the white things, you can't do it in such a way that the white is left behind. So what we need is this:

(Pl*) The F that is (allegedly) mixed in Fs is co-destroyed with

This now means that there is no way of getting rid of the white things or the hot things that leaves behind entities that are just white, or just hot. And then, by the definition of 'separable', we get:

(C1*) The F is not separable from Fs.

But now, if the F were literally mixed with Fa, we could employ the following by now well-known fact about mixtures:

(P2*) An ingredient in a mixture is separable from it.

And that would, with (E), give us

(C2*) The F is separable from Fs.

And that is a contradiction. So Eudoxus is wrong.

But he has not uttered outright contradictions like "the forms are immovable, impassible, bodiless, physical ingredients of things that exist in separation from those things". He has simply fallen in the path of one of Aristotle's favorite anti-Platonic tanks; his position retains a feature of the High Platonic theory that Aristotles quite reasonably thinks absurd. And so, if I am right, Aristotle takes care, in Categories 2, to distinguish his

own immanentism from that of Eudoxus.

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