les langues accordent de l'importance aux notions d'agent, de patient, etc..., dont il faut tenir compte au-delà des structures syntaxiques formelles. Il nous pousse également à croire qu'il serait fructueux d'appliquer ce type d'explication (ce qui, à notre connaissance, n'a pas encore été fait) à d'autres domaines de la syntaxe latine.

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Semantic Selection Properties and Etymology: Latin mīca

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The structural approach involving a systematic analysis of sound correspondences has made historical linguistics a relatively exact type of Geisteswissenschaft. But insofar as semantic reconstruction is concerned, the basic principle consists in converting synchronic homonymy into dia- or panchronic polysemy. The paragon of this approach is still Benveniste (1954). As today's morphology is yesterday's syntax, today's syntax may be yesterday's pragmatics. The pre-

historical context of situation, which may have occasioned the creation of a word or a more or less drastic change in its prototypical meaning, may have vestigial reflexes in the conventional rules or norms that determine, without any obvious relation to functional reasons, how words have to be colligated in order to get a correct or "grammatical" syntagm. Indeed, one heuristic principle in etymological research consists in utilizing semantic selection properties as a window into the "original" (or rather, prehistorical) contexts of use. In investigations of this kind the "wesenhafte Bedeutungsbeziehungen" à la Porzig (1934) have vindicated their fruitfulness (witness e.g. Maher 1977).

What tends to make historical semantics a precarious undertaking is that lexical units are not confined within clear-cut semantic boundaries. Rather, the semantics of natural language is bound to be fuzzy (cf. Armstrong & al. 1983, for example). This circumstance will make itself felt all the time in the present study. Yet I hope to be able to bring some order into the chaos.

The case to be discussed in the present paper pertains to the rôle of semantic selection properties in determining the proper input to historical comparison. It will be claimed that the traditional lexicography of the Latin noun $m\bar{\nu}ca$ results from a neglect of contexts of occurrence that are readily gleaned from philological texts. Instead of texts, the etymologists (of $m\bar{\nu}ca$) have been preoccupied with impressionistic sound-meaning similarities more or less in abstracto. I. e., the concrete philological moorings are lacking.

According to the common opinion among lexicographers, Lat. mīca denotes "a crumb, little bit, morsel, grain" (LS 1142), "a particle (esp. of salt), grain, crumb" (OLD 1107), "frustulum, pars minutissima, res minima" (TLL VIII 927,79). Thus, the lexical sign in question is analyzed as consisting of the signifiant mīca and the signifié 'SMALL BIT (OF x)'. Indeed, the lexicographical practice of quoting e.g. the syntagm mica salis 'grain of salt' along with mica panis 'crumb of bread', as if they belonged exactly to the same état de langue, is in accordance with the view that SMALL-IN-SIZE was the dominant semantic feature. However, even a rather superficial glance at the TLL article on mīca makes one surmise that, whereas mica panis was certainly a correct collocation in late Latin, it would scarcely have been acceptable in archaic or classical Latinity. A careful explication of the semantic selection properties of mīca gives the upshot that the semiotically relevant feature of this word cannot be unequivocally extracted from the experience of size (as was the case

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in words such as corpusculum), nor from the experience of solidity (as in granum; Varro, rust. 1,48,1 granum dicitur quod est intimum soldum), of shape (cf. globus/ROUND/; see TLL VI 2051, 47 ff.) or of material composition (e.g. grumus /EARTHEN/).

It will be shown in the first part of the present paper (ch. 1) that in archaic and classical Latin the semantic selection properties of $m\bar{\nu}$ were not quite the same as in late Latin. Etymological implications of this finding will be considered in the second part (ch. 2).

1. The semiotically primary feature of mīca

Typically, *mīca* figures as the head of a material noun in partitive genitive but does not, however, select any material noun as its attribute. The kind of semantic solidarity between *mīca* and its partners diagrammatically indicates the semantic feature in which the "semantic valence" of *mīca* consists. This "wesenhafte Bedeutungsbeziehung" also gives a clue as to how *mīca* is to be etymologized.

1.1 Salt

In glosses $m\bar{i}ca$ is rendered into Greek as $\psi i\xi$ or $\psi i\chi iov$ 'crumb' (see TLL VIII 927, 69-71), but whereas this is an adequate translation of mica panis, it does not do justice to the archaic and classical usage, in which the most frequent colligation was mica salis (TLL VIII 927, 81 ff.). * $\psi i\xi$ $\dot{\alpha}\lambda \dot{o}s$ as a translation of mica salis is unattested, and it would probably have been stricken as odd as *crumb of salt in English. The Greek counterpart was rather $\chi \dot{o}v \delta \rho os$ 'coarse'), crystalline form of rock salt; cf. Hippocr. ulc. 17 $\dot{\alpha}\lambda \dot{o}s$ $\chi \dot{o}v \delta \rho ov\varsigma$ 'granules, crystals of salt'; Phoenix (as quoted in Athen. 8, 359e) $\chi \ddot{\alpha}\lambda \alpha$ (= $\kappa \alpha i \ddot{\alpha}\lambda \alpha$) $\lambda \dot{\eta}\psi \epsilon \tau \alpha i \chi \dot{o}v \delta \rho ov$ 'and she will accept a lump of rock salt'. Quite obviously also $m\bar{i}ca$ denotes the coarse, granular state of rock salt; cf. Cato, agr. 70,1 dato salis micas tres 'give three grains (="granules") of salt'.

In Greek, χόνδρος can be colligated to the adjective μέγας 'big, large'; e.g., Herodot. 4,181 άλός ἐστι τρύφεα κατὰ χόνδρους μεγάλους 'there are masses of great crystals of salt'. Herodotus also tells us that in Libyan salt mines men live in houses built of big lumps of salt: τὰ δὲ οἰκία τούτοισι πᾶσι ἐκ τῶν άλίνων χόνδρων οἰκοδομέαται (4,185). That the syntagm μέγας χόνδρος involves no contradiction

suggests that SMALL-IN-SIZE is not an inherent, semiotically relevant feature of $\chi \acute{o}v \delta \varrho o \varsigma$. The same seems to hold for $m\bar{\iota}ca$ as well. When telling about Cappadocian salt mines, Plinius points out that salt is quarried in great lumps or sheets: caeditur specularium lapidum modo; pondus magnum glaebis quas micas vulgus appellat 'it ist split into sheets like specularis lapis; the blocks are very heavy, termed in the usual jargon micae' (Nat. 31,77).

This passage contradicts the notion that mīca is inherently small in size. To overcome this difficulty, Jones proposes that mīca is here used ironically. He translates: "the blocks are very heavy, nicknamed by the people "grain's" (1963:425). Though highly improbable, this interpretation is a deductive reflex of conventional lexicography which represents mīca as an inherently small piece of something. Another possibility would be, of course, that Pliny is simply mistaken about the facts. I believe, however, that this passage brings us quite close to the original context of situation in which mīca was created. It is very probable that the phrase vulgus appellat (= vulgo appellatur; cf. Sofer [1936], who does not discuss this passage, though) here refers to technological jargon. The Plinian passage suggests very strongly that the use of mica was not necessarily confined to denote particles that were small in size. As a suggestive parallel consider the following passage which also describes rock salt: ἔστι δὲ μακρός τε ὁ χόνδρος (ἤδη (δέ) τινες αὐτῶν καὶ ὑπὲρ τρεῖς δακτύλους) καὶ καθαρὸς ὤσπερ κρύσταλλος 'the salt-crystals are large (some of them more than three fingers in breadth) and clear as ice' (Arrian. anab. 3,4,4).

It is more probable than not, indeed, that the syntagm mīca magna involved no oxymoron. The sememe SMALL-IN-SIZE, I take it, did not originally belong to the inherent structural features of mīca.

Rock salt, or halite, is crystalline sodium chloride (see Ramsdell 1960), the optical qualities of which such as transparency and brilliance are salient enough as to acquire semiotic function; i.e., TRANSPARENT and BRILLIANT are features that could be used by any normal speaker to characterize or describe halite crystals, lumps or sheets of rock salt. As a parallel consider Romance languages, in which rock salt is called "jewel salt" (Fr. sel gemme, It. salgemma, Sp. sal gema); cf. Robert III 267. Now, consider the following passages, where the optical qualities TRANSPARENCY and BRILLIANCE of salt are referred to: Quibusdam locis glaebae (sc. marmoris/M.N.) ut salis micas perlucidas habentes nascuntur 'in certain places there grow blocks of marble having as though transparent

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"sparks" of salt' (Vitr. architect. 7,6,1). - Puri lucida mica salis 'the glittering grain of pure salt' (Ovid. fast. 1,338).

Plinius describes rock salt as follows: Circa Gelam ... tanti splendoris ut imaginem recipiat. In Cappadocia crocinus effoditur, tralucidus et odoratissimus 'It is of such brightness near Gela that it reflects an image. Salt of saffron color is quarried in Cappadocia; it is transparent and very fragrant' (nat. 31,86). – In Hispania quoque citeriore Egelestae caeditur, glaebis paene tralucentibus 'in hither Spain too at Egelesta it is cut in almost transparent blocks' (nat. 31,80).

In an earlier passage Plinius notes that this kind of salt caeditur specularium lapidum modo (nat. 31, 77), where the qualities of rock salt are compared to those of specularis lapis, the exact meaning of which is not entirely clear ('muscovite', 'mica' and 'selenite' have been proposed). In any case, it is clear that the use of mīca was conditioned by the transparency and brilliance of its referent.

1.2 Gold

In Latin, aurum 'gold' is very frequently characterized by means of the adjective fulvum (André 1949: 135,361), which signifies flashing luster (cf. fulgere 'to flash'); suffice it to quote only one passage to this effect: according to Catull. 64,44 Peleus' abodes fulgenti splendent auro 'shine with flashing gold'. The syntagm mica auri occurs twice; and the variant mica aurea belongs here as well.

In Lucretius, mīca is used in the exemplification of homoeomerism, ascribed to Anaxagoras, according to which things consist of particles having the same qualities as the thing itself. According to Lucretius, 1) Anaxagoras holds that

ossa videlicet e pauxillis atque minutis ossibus his et de pauxillis atque minutis visceribus viscus gigni sanguenque creari sanguinis inter se multis coeuntibus guttis ex aurique putat micis consistere posse aurum et de terris terram concrescere parvis, ignibus ex ignis, umorem umoribus esse

¹⁾ Lucretius' account reflects the traditional doctrine (originating with Aristoteles' [e.g. de caelo 303 a 28] identification of Anaxagoras' σπέοματα with his own concept of ὁμοιομερῆ; see Teodorsson 1982: 27-29, 44; Rösler 1973:58), which (mis)represents Anaxagoras' as a kind of Atomist, who is supposed to contradict his system by stressing the principle of infinitive divisibility of matter (cf. Cornford 1930:14). For an interesting interpretation of Anaxagoras' own system, see Teodorsson (1982: esp. 65-94).

'bones are made of very small and minute bones, flesh of very small and minute particles of flesh, and blood is composed by many drops of blood coming together into union, and he thinks gold may consist of grains of gold ("goldcrystals"), and earth to be a concretion of small earths, fire of fires, water of waters' (Lucr. nat. 1, 835-841).

V. 839 f. is perceptively – from the linguistic (not necessarily philosophical) point of view – translated by Ernout: "il suppose de même que l'or est constitué par des paillettes d'or" (1924:35). Ernout's choice of the word paillette 'spangle', which denotes a GLITTER-ING object, was obviously dictated by the optical qualities of gold. And the same holds for Lucretius' choice of mīca.

Vitruvius describes the process of amalgamation, whereby gold is separated from ashes: is cinis coicitur in aquam, et additur eo argentum vivum. id autem omnis micas auri corripit in se et cogit secum coire 'the ashes are thrown into water, and quicksilver is added; this collects all the particles of gold and combines with them' (architect. 7,8,4).

Brilliance and color are indeed the salient optical properties of gold (cf. André 1949: 135,136; TLL II 1526, 77-1527,25). In fact, mīca is comparable with scintilla 'sparkle', as far as optical properties go. Witness the following passage: (argentum) non nisi in puteis reperitur nullaque spe sui nascitur, nullis ut in auro lucentibus scintillis '(silver) is found in shafts only and grows with no indications of its existence. It gives off no shining sparkles such that are seen in gold' (Plin. nat. 33,95; Halleux 1975: 73). The scintillae in the above passage can be compared with the mīculae in the following: exiguae miculae, quibus nascitur colliquefactis aurum (Arnob. nat. 2,49 p. 87,3). That the optical properties of mīca and scintilla are apt to establish a "wesenhafte Bedeutungsbeziehung" is evidenced in Cael. Aurel. chron. 1,4,63, according to which on the verge of an epileptic attack patients velut scintillarum micas aut circulos igneos circumferri prae oculis sentiunt 'see as though flashing sparks or rings of fire spinning before the eyes'.

In Martial, mīca is used for refer to a cenatio:

Mica vocor. Quod sim, cernis: cenatio parva: ex me Caesareum prospicis ecce tholum. frange toros, pete vina, rosas cape, tinguere nardo: ipse iubet mortis te meminisse deus

'My name is Mica. You see what I am: a small cenatio. From here you can see the imperial rotunda. Crush the couch, ask for wine,

deck yourself in roses, oil yourself with nard: The god himself advises you not to forget the death' (Martial 2,59,1).

Here mīca is, not a crumb (pace Goldberger 1932:145), but a shorthand for mica aurea (Friedländer 1886:267; the linguistic point appears in Richard's 1931:121 translation "On m'appelle "paillette d'or"); not, however, Domitian's mica aurea (the exact nature of which escapes us), as the conventional identification has it. Rather, the cenatio that Martial is talking about was likely a caupona, a "restaurant" named Mica or ad Micam with a sight to Augustus' mausoleum (Lundström 1912:82-83; 1929:33).²)

1.3 Frankincense and myrrh

Resin is thick sticky liquid which upon exposure to air hardens into transparent or translucent tears with a pearly luster (cf. Ovid. met. 15,394). Plinius calls such tears resinae candidae gemmae 'jewels of shimmering white resin' (nat. 12,65). These resinae candidae gemmae were used by Romans to adulterate the genuine frankincense $(t\bar{u}s)$, in which these optical properties of resin were particularly salient. Plinius (l.c.) states expressis verbis that frankincense is tested for its brilliance (testatur candore); cf. also nat. 16,40 interveniente candida gemma tam simili turis 'interspersed with shimmering white tears so closely resembling frankincense'. Notice also that the Greek name for frankincense $\lambda i\beta \alpha vo\varsigma$ is a Semitic loan from the root lbn '(to be) white, bright' (see Chantraine, DELG 639; Müller 1974).

The earliest attestation of the syntagm mīca turis is Ovid. trist. 3,13,16 micaque sollemni turis in igne sonet '(that) grains of incense would crackle in the solemn fire'. The Ovidian passage is not at variance with our claim that the choice of mīca was dictated by optical considerations.

Another resinous product of commercial value was myrrh (murra), and given the optical qualities of resinous tears, it is no surprise to see mīca colligated to murra as well: adiecta mica murrae 'with grains of myrrh' (Scrib. Larg. 127).

²⁾ Mica as the name of restaurant or casino is attested in Sen. ep. 51,12 habitaturum tu putas umquam fuisse in mica Catonem 'do you suppose that Cato would ever have lived in a casino', if Lipsius' correction in mica Catonem is accepted (inimica, mss). There are other, perhaps better ways of emending the passage (ibi or illic instead of in mica). However, if Lundström's (1912) interpretation of mica is accepted, Axelson's (1939:5) objection that "ein kleines Speisezimmer nicht sehr gut zu habitaturum passt" loses some of its force.

Several Romance dialects use (reflexes of Latin) gemma 'jewel' to denote (gum)resin (see Wartburg IV 94); cf. also Isid. orig. 16,6,2 gemmae vocatae quod instar gummi transluceant.

1.4 Lead

In a passage dealing with the preparation of minium Plinius makes the following remark: namque est alterum genus omnibus fere argentariis itemque plumbariis metallis quod fit exusto lapide venis permixto, non ex illo cuius vomicam argentum vivum appellavimus ..., sed ex aliis simul repertis. steriles etiam plumbi micae; deprehenduntur solo colore, nec nisi in fornacibus rubescentes exustique tunduntur in farinam. hoc est secundarium minium perquam paucis notum multum infra naturales illas harenas, 'for there exists in fact another kind of minium in almost all silver-mines, and likewise lead-mines, which is made by smelting a stone that has veins of metal running through it; it is not obtained from the stone, whose round drops we have designated quicksilver ..., but from other stones found at the same time. These stones have not particles of lead. They are detected only by their color, and only when they turn red in the furnaces, and after being thoroughly smelted they are pulverized by hammering. This gives a minium of second rate quality, which is known to very few people, and is much inferior to the natural sands we have mentioned' (Plin. nat. 33,119).

The reading steriles etiam plumbi micae; deprehenduntur solo colore is the best that can be gleaned from the oldest and best manuscript c. Bambergensis (= B; 10th c.), whose reading de micae prehenduntur was corrected (= B²) as micae deprehenduntur. The reading deprehenduntur is supported by the recentiores which, however, have dropped micae. The reading micae; deprehenduntur is that provided by Jan & Mayhoff (1897:146) and Zehnaker (1983:96).

The syntagm plumbi micae is quite compatible with our claim that mica was originally constrained to select attributes having certain optical qualities. Non-oxidized lead is very well characterized by the feature SHIMMERING. Notice also that plumbum album "dead white lead" denotes 'tin' (only Plin. nat. 4,104 has once plumbum candidum), whereas lead is plumbum nigrum (not atrum).

1.5 Marble (quartz)

In another technological passage dealing with vein gold Plinius writes: Quod puteis foditur canalicium vocant, alii canaliense, marmoris glareae inhaerens, non illo modo, quo in oriente sappiro atque Thebaico

aliisque in gemmis scintillat, sed micas amplexum marmoris 'Gold dug up from shafts is called "channelled gold", "trenched gold" by others; it is found in a crystalline matrix,3) not in the way in which it gleams in the Oriential sapphire (= lapis lazuli) and the Theban stone and in other precious stones, but joined with quartz crystals' (nat. 33, 68).

The reading micas amplexum marmoris '(chemically) joined with quartz crystals' is accepted by (e.g.) Jan & Mayhoff (1897:128) and Zehnaker (1983:74), and rightly so; micas is the reading of most manuscripts (incl. B). The alternative reading micans (B²) amplexu (Salmasius) involves an idle correction. Durand's (1729:207) objection goes to the point: "C'est la Lecture de Venise (i.e. micas amplexum in c. Venetianus/M.N.), que Saumaise n'auroit pas dû inquieter, en substituant, sed micans amplexu marmoris: comme si c'était le marbre qui fit briller l'or".

Again we have to do with a referent that can be characterized by semantic features extracted from optical qualities. Notice also e.g., Plin. epist. 5,6,38 marmore splendet 'it shines with marble'; cf. Gk μάρμαρος "a crystalline rock, which sparkles (μαρμαίρει) in the light" (cf. Chantraine, DELG 668).

1.6 Semantic development of mīca in historical Latin

1.6.1 We have now surveyed the use of mīca from the earliest instances up to the first c. A.D. Syntagms of following types are attested:

The above warrants the generalization that originally, or at least in its earliest attestations, mīca was inherently restricted to select only crystalline, flashing or glittering, material as its genitive attribute:

³⁾ See Lewis & Jones (1970:182).

As a part of crystalline material mīca denoted a glittering crystal or a crystalline particle. It is noteworthy, and likely to be of etymological significance, that only mica salis is attested in Cato (agr. 70,1; 135,3; 156,3), whereas 'grain of frankincense', later commonly signified by mīca turis (Ov. trist. 3, 13,16; Colum. 6,30,4; etc.), is rendered by Cato as granum turis (agr. 70,1; so also Plaut. Poen. 415). It might even be concluded that mīca was originally restricted to select sal as its genitive attribute, and the other colligations listed in (1) were metaphorical extensions of the original syntagm to other crystalline material. That the original context of situation involved salt mining is also strongly suggested by those technological passages in Plinius quoted in 1.1 above.

The impression that mīca was originally a salt-crystal (of whatever size.4) is further strengthened by the fact that mīca was sometimes used absolutely to denote a grain of salt; e.g. Ovid. fast. 2,24 torrida cum mica farra 'dry spelt with salt'; Hor. carm. 3,23,20 mollivit aversos penates farre pio et saliente mica (cf. Tibull. 3,4,10 farre pio et saliente sale); Paneg. in Mess. 14 parva ... caelestis placavit mica (Schulze 1934: 468); cf. also Petr. sat. 76,3 mīcarius 'salt-licker' (Nyman 1985).

1.6.2 The attested use of $m\bar{i}ca$ is remarkably uniform semantically up to the first c. A. D., but then other instances begin to emerge that witness some laxing in its selectional properties, even to the extent that we can speak of "coexistent semantic systems". The coexistence of tradition and creation is best witnessed by the novel syntagm mica panis 'crumb of bread' in Christian Latinity (cf. the context of "whose language?").

The Lucretian passage ex aurique putat micis consistere posse aurum (1,839) brought forward the notion of a particle that was supposed to be a FLASHING one. In Seneca the Philosopher we find another instance of Atomist usage of mīca. Pointing out in a sour tone Epicurus' independence of gods Seneca writes: te atomi et istae micae tuae forte et temere conglobaverunt 'you are merely a random conglomeration of atoms and of those particles of your theory' (benef. 4,19,3).

Epicurus' physics consists not only in atoms but also in the notion of minimal part ($\tau \dot{\sigma} \, \dot{\epsilon} \lambda \dot{\alpha} \chi \iota \sigma \tau \sigma \nu$), and it is rather obvious that $m\bar{\iota} cae$ here refer to the latter. The theory of minimal parts, put forward in

⁴⁾ In Cato, agr. 156,3 the size of one mica salis is compared to that of a grain of vetch (quasi ervum), i.e. 2,4-3,2 mm. in diameter (RE VI 556).

the Letter to Herodot (esp. 55-59), is one of the most controversial issues in Epicurean philosophy. (For some interesting interpretations from different points of departure, see Furley 1967; Krämer 1971: 233-249). The minimal parts can be construed as level-specific indivisibles (cf. Pacheri 1975), and so it ist not unjustified to suggest that by this notion Epicurus introduces a systems theoretical aspect to his physics. In any case, we here appear to have the first instance in which the meaning of mica as a PART(ICLE) OF A WHOLE comes to the fore without any obvious implications to optical qualities. On the other hand, there may be more to Seneca's choice of the word mīca in the present context than just a characterization of Epicurus' philosophical doctrine. We have to reckon with the possibility that the expression istae micae tuae was also intended to occasion the association of piquancy of style or exposition (i.e., sal, sales, salsum, on which see Quint. inst. 6,3,19). It was pointed out in 1.6.1 above that mica could be used interchangeably with sal, and this holds also for the figurative use of sal(es) in the meaning 'piquancy'; cf. Martial 7,25,3 f. nullaque mica salis nec amari fellis in illis (sc. epigrammatis) gutta sit. In the case at hand, Seneca may be hinting at Epicurus' cavalier attitude to other philosophers: "Die Ansichten anderer Philosophen werden von ihm, ohne daß er sich auf sie tiefer einläßt, mit Hohn und Verachtung zurückgewiesen, ja seine Geringschätzung erstreckt sich, wo es ihm paßt, überhaupt auf alle Leistungen menschlicher Kultur" (GLL II 1920:94).

1.6.3 In Petr. sat. 42,5, Seleucus regrets his dead friend Chrysanthus: quinque dies aquam in os suum non coniecit, non micam panis 'for five days he didn't put water into his mouth, not a crumb of bread'. As seen by Stefenelli (1962:71-2), this passage shows very nicely the evolution of mīca to a negative particle. By now, SMALL had obviously become the dominant semantic feature of mīca. The causation of this may very well have been multiple: Firstly, the objects denoted by mīca were in practice mostly small in size. Secondly, the i sound tends to give the impression of something small (Schieberer 1950:118-119; Mayerthaler 1980:99-102; etc.).

In 73,6 Trimalchio characterizes one of his young slaves as homo praefiscini frugi et micarius. The hapax micarius is usually glossed 'crumb-saver', "qui micas panis colligit et victum sibi parce comparat" (Forcellini, s.v.). This interpretation comes out very natural in view of the fact that mīca panis 'crumb of bread' was the normal colligation in late Latin (see TLL s.v.). Notice, however, that such an encapsulation of the meaning BREAD in the semantic structure of

mīca cannot really be established before the 4th c. A. D. The passage in Petr. sat. 42,5 is not a case in point (pace TLL VIII 928,21 ff.), because there panis is colligated with the NEG-syntagm as a whole, i.e. [[non+mīcam] panis], rather than with mīca alone. Given the fact that mīca was more or less interchangeable with sal throughout the Latinity (e.g., Ovid. fast. 2,29 cum mica farra = 1,28 farra mixta sale = 3,284 salsa farra), it is certainly more to the point to conceive micarius as a "salt-licker" (Nyman 1985). Salem delingere, ἄλα λείχειν 'to lick salt' stood proverbially for a thrifty way of living (Blümner 1920: 2092): e.g., Diog. Laert. 6, 57 ἀλλὰ βούλομαι ... ἐν 'Αθήναις ἄλα λείχειν ἢ παρὰ Κρατέρφ τῆς πολυτελοῦς τραπέζης ἀπολαίειν 'I should rather lick salt at Athens than enjoy sumptuous fare of Kraterus' table'; Plaut. curc. 562 apud me numquam delinges salem 'at my house you shall never lick salt' (cf. Plt. Pers. 430 numquam delinget salem). 5)

1.6.4 Columella writes: sunt qui micas alii tepido madefiant oleo et faucibus inferant 'some people moisten morsels of garlic with warm oil and insert them into their throats' (Col. 8,5,21).

The reading mica alii 'morsel of garlic' is attested in the codices veteres (= SA, 9th c.), whereas Cato has spica alii (agr. 70,1 dato salis micas tres, ..., turis grana tria, alii spicas III). This appears to suggest that the correct reading in the Columella passage might be spicas alii (which is provided by some younger mss.). Cato would scarcely have written mica alii, but I think we must give the reading mica alii to Columella. Also Palladius (agr. 1,27,2) has alii mica trita cum oleo faucibus inseretur. Columella's usage involves a metaphorical extension, but notice that morsels of garlic have the optical quality of shimmering whiteness. Witness the following: alii candidi spicae capitis tritae (Scrib. Larg. 231).

2. Semantic input to etymology

2.1 Some "Kling-Klang" etymologies

Except for Brugmann's (see WH II 85) proposal to connect $m\bar{c}a$, qua "Schnitzel", with Gk $\sigma\mu i\lambda\eta$ 'Schnitzmesser, chisel', OHG smid 'smith', etc. ($< *sm\bar{i} +$, i.e. reduced grade of the long-diphthong stem $*sm\bar{e}i +$ 'schnitzen'), it has appeared more or less self-evident

⁵⁾ Cf. Plin. nat. 31,89 Varro etiam pulmentarii vice usos (sc. sale) veteres auctor est, et salem cum pane esitasse eos proverbio apparet 'Varro too tells us that the men of old used salt as a relish, and that they ate salt with bread is evident from a

that mīca has to be somehow etymologized with the Gk adjective (σ)μικρός 'little, small, short' and its variant μικκός (Dor., Boeot.) as well as with its more or less probable cognates in Germanic (OHG smāhi 'little, low', etc.; WH II 85; Frisk, GEW II 237; Chantraine, DELG/III/701; Leumann 1977:190; van Windekens 1976:298-9; etc.). The input to the Greek forms is considered to be * $\mu \bar{\nu} \kappa \rho$. The ρ in μιχρος has been explained as due to its antonym μαχρός 'big'; and μικκός is supposed to have resulted from affective gemination. The inclusion of the Germanic explananda requires the reconstruction of the long-diphthong root *smēik+, of which Latin mīca and Greek (σ)μιχρός would represent the reduced grade. Although a generalization concerning Indo-European lexicon can certainly be captured by reconstructing the long-diphthong root variants *smēik + /*smik +, everybody has not been happy with such a solution (on the general problem, see Lindeman 1968). So, Szemerényi (1968: 32-33) posits the Indo-European root *mei + /*mi + 'to diminish', which is reflected in e.g. μείων 'smaller' and μινύς 'small', Lat. minor 'smaller' (etc.), respectively. According to him, "Proto-Gk" *μῖχος and Lat. mīca involve "age-group" derivates from the root variant *mi + ; i.e., *mi + iko + . Alternatively, $m\bar{i}ca$ might have been borrowed from *\(\mu\in\text{ixoc}\) (similarly already Stowasser. WH II 85). Prehistorical loans as well as other substratum influences involve a serious problem to the epistemology of historical linguistics. Loans and contact influences belong to the life of language communities as social entities. Yet, hypotheses advocating prehistorical loans have perforce the methodological character of "faute de mieux" explanations, because they simply cannot be falsified.

In sum, the semantic link between $m\bar{\imath}ca$ and its putative cognates in Greek is not as granted as it has been taken. It has become evident in the bulk of the present paper that the use of $m\bar{\imath}ca$ was not necessarily tied up with the (small) size of its referent; i.e. the syntagm mica magna involved no contradiction. Moreover, the facile etymology, in which $m\bar{\imath}ca$ is taken to be the most probable cognate of Greek $\mu\iota\iota\iota\rho\delta\varsigma$ (Chantraine, DELG/III/701), cannot account for the fact that $m\bar{\imath}ca$ characteristically denotes a crystalline object.

In light of conventional lexicography it is no surprise that no one has ever got around to suggest an etymological connection between

proverb'; Plaut. Rud. 937 cum aceto pransurust et sale sine bono pulmento 'he will take his breakfast seasoned with sour wine and salt without any dainty relish'; Ovid. fast. 2,538 satis est .../et sparsas fruges parcaque mica salis.

mīca and the verb micare 'to blink, glitter; vibrate'. Given that mīca is invariably glossed 'crumb, little bit, morsel, grain', such a proposal would certainly exemplify the worst type of popular etymology. There is nothing to begin with a crumb or morsel and a rapid intermittent movement or flashing. But the upshot of Ch. 1 is that the input to an etymological explanation of mīca is not likely to be 'crumb', but rather 'crystal(line particle), piece of a glittering object'. Given the semantic connection, also the formal resemblance between mīca and micare cannot be accidental. Thus, it is possible to establish the following formal-semantic correspondence:

(2) Form Meaning

m c(a) 'GLITTERing piece'

m ic(are) 'to GLITTER'.

2.2 Utilizing the new input

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The variants mīc-/mic- in (2) above can be looked upon as reflexes of Pre-Latin *meik + /mik + 'glitter'; i.e. *meik + \bar{a} 'that glitters (i.e. a surface consisting of luminous points > a luminous point)' > 'glittering, crystalline particle, esp. (salt-)crystal' > 'particle; crumb' and $*mik\bar{a} + se$ 'glitter' > $mic\bar{a}re$ 'glitter; vibrate'. It is true that the original meaning of micare has been said to be 'move rapidly, vibrate' (EM4 402; Cotton 1950:441); it has even been set down as a universal principle that words meaning 'glitter, gleam, shine (etc.)' have always evolved from words that earlier used to denote rapid movement (Wood 1912:305). Such kind of determinism is of course alien to the nature of human language (see Lass 1980; Itkonen 1983). As far as historical Latin is concerned, it may be difficult to tell, which one of the polysemous meanings of the verb micare was the original one. In a wider Indo-European perspective the original meaning appears to be 'blink, wink; glitter', as can be gleaned from the cognates (cf. e.g. Pokorny, IEW 712-3):

(3) Middle Persian *mičak (reconstructable from Persian miža and Baluchi mičāk) 'Augenwimper'; Welsh mygr 'bright'; dirmygu 'to despise'; OCS mičitu 'Schimmern, Flackern (van Wijk 1927); Vision'; Eastern Sorbian mikać 'blinzeln, blinken', mik 'Augenwink'; Low Sorbian miknuś 'blinzeln, blinken'.

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⁶⁾ There were certainly folk-etymological associations, e.g. Carm. de mens. 2,2 aspice ut aris tura micent, which is miniscent of mica turis (Ovid. trist. 3,13,6); cf. TLL VIII 929, 58-59.

For a possible parallel to the semantic evolution see Dolch's (1952: 162-166) account of the creation of German dialectal nouns for eyelid and eyelash; and Stammler's (1954:216-220) description of the German verb blinken 'blink'. The root *meik + /*mik + is regarded as a variant of *meigh + /*migh + (Common Slavic *migu 'Augenblick', *mignoti 'nictare'; Lith. užmingù, migti 'einschlafen'; etc., see Pokorny, IEW 712) that need not involve "independent suffixations" (pace Benveniste 1937:281) of a PIE root *mei + /*mi +. Rather, the gh/k extensions bear evidence for an earlier morphophonological alternation, in which the k alternant was conditioned by a following [-voice] segment (cf. mictum < *mig(h) + tom); i.e., the roots *meigh + and *meik + are likely to be ex-allomorphs that have lost their complementarity and become semiotically more or less independent signs. This is a natural phenomenon in the morphology of human language (witness Anttila 1975; cf. Nyman 1981: 94), and certainly not unattested in Indo-European lexicon (see Stang 1967).⁷)

So, of the root variants *meigh + /* meik + the former is likely to be the older one. The root *meigh + also encodes the semantic field 'mist, cloud, rain' (*moigh + ós > OIA megh + áh = Avest. maēya + 'cloud'; *migh + > Gk $ô\mu i\chi\lambda\eta$ 'cloud, mist', Lith. miglà 'mist', OCS migla 'mist'; Pokorny, IEW 712). Here we witness also the root variant *meiĝh + (> OIA mih + 'mist, rain'), which specialized into encoding the meaning 'urinate' (*meiĝh + > OIA méhati = Avest. maēzaiti, Gk $ô\mu\epsilon i\chi\omega$, Lat. meiō, etc.). The polysemy 'mist/rain/urinate' is supported by examples from various languages. Nor is it true that "Die Sippe für "Wolke, Nebel" ist aus lautlichen Gründen (-gh-:-gh-) von der für "harnen" zu trennen" (Mayrhofer II 680). Of course, we have to reconstruct the different roots *meigh + and *meiĝh + from the comparative evidence we have at disposal; but

⁷⁾ As far as the root *mei + /*mi + (Benveniste 1937:281; van Wijk 1911:124) is concerned, it seems plausible enough to identify it with Pokorny's (IEW 710) *mei + 'wechseln, tauschen'. This would make micare (< *mi + k +) a remote cognate of Latin migrare 'to change'; and a conceptual link could be established as well: Whereas migrare involves passing from a given state, S¹, into another, S² (cf. Lucr. 2,775 caerula quae sint/numquam in marmoreum possunt migrare colorem 'things that happen to be blue can never change into a shining white color'), micare can be conceived of as dencting iterative rapid movements between S¹ und S², which is perceived in terms of infinitesimal intermittences. Admittedly this is abstract, yet well within the bounds of possibilities of semantic evolution and diversification.

having done this, we are obliged to try to relate these roots in terms of historical evolution; this is what Kern (1894) did not do, though he has collected a valuable body of comparative input data. As Miller (1976) quite rightly points out, the "kentum" reflexes in "satem" languages are residues of PIE velars in non-palatalizing environments (e.g. before a resonant; cf. Lith. miglà, OCS migla). I see no reason for not accepting Miller's (1976:53-54) well-argued claim that, in the last analysis, *meiĝh + 'urinate' has evolved from the root *meigh +.

There is one more word that, in the last analysis, probably has to be subsumed under the root *meigh+, viz. OIA miṣáti 'opens the eyes', ni + mis + 'Augenzwinkern, Blinzeln'. This verb has called for the reconstruction of the +s extended entry root *meis + 'flimmern, blinzeln' (Pokorny, IEW 714). However, OIA mis + might be traced to an earlier *mis +, which in turn would reflect the palatalized variant *mik + of the root *mik +. Though this smacks of an ad hoc explanation, it can be supported by the fact that, in OIA, a sibilant (s) was neutralized after an i as s. Now it is conceivable that also a palatalized sibilant could be absorbed by this kind of neutralization, especially if it was considered different enough from another root, which would in this case have been OIA miks + /mis + 'blend' (the latter in misra + 'blended').

In sum, we would obtain the following evolutional scheme:

3. Conclusion

In the earliest historical use $m\bar{i}ca$ denotes 'grain of salt'; and it is indeed salt that is conceptually "encapsulated" in $m\bar{i}ca$. The prototypical association between $m\bar{i}ca$ and 'salt' is probably due to the fact that $m\bar{i}ca$ was a technical term of salt mining (witness Plin. nat. 31,77).

Whereas salt mining is a necessary ingredient in the pre-history of mīca, the original meaning of mīca, qua sibling of the verb micare, was 'glitter'. So, in the original collocations X micat, of which mīca X: ii was a nominalization, X was selectionally specified as a luminous source or surface (e.g. star, eye [Mugler 1964:273], flash, flame, spark, gold, (salt-)crystal, "gem" of frankincense, ivory, etc.);

cf. Ovid.met. 2,2 clara micante auro 'bright with glittering gold', Verg. Aen. 10,134 qualis gemma micat 'he glitters like jewel', Sil. 12,22-23 micat .../... ebur 'the ivory glitters' (cf. Ennod. carm. 2,133,3-4 frangunt Marmaricis elephas quod misit ab arvis, / per micas sparsum mox solidatur opus), etc. It is from this source, I take it, that mīca has got its original meaning: aurum micat 'the gold glitters' \rightarrow mīca auri '*glitter of gold' ("gen. subiectivus"). Metonymically, mīca was probably taken to denote the glittering object itself (cf. "gen. definitivus"), which opened the further possibility to interpret mīca as a (glittering) particle (with, say, auri qua "gen. partitivus"). Cf. Engl. glitter 'a glittering object (e.g. rhinestone, sequin, spangle [cf. also French paillette d'or, de sel, quartz, de mica(!), etc.]; or Greek $\gamma\lambda\eta\nu\varepsilon\alpha$ 'glittering objects' ($\langle PIE *gel + 'glitter'; Manessy-Guitton 1972: 93-94); or Greek <math>\alpha i\gamma\lambda\eta$ 'glitter; glittering object' (e.g. $\chi\lambda\iota\delta\omega\nu$ 'bracelet'; cf. Chantraine, DELG/I/30-31).

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