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The two-membered syllogism

Discussion in Indian literature of the formal structure of a syllogism is notwithstanding its purely academic appearance one of the most important means of insight into Indian methods of thinking and of literary expression. It has resulted in a fairly strict division of logico-philosophical activities — particularly in mediaeval Buddhism — into two categories, that of the purely mental operation (kalpanā, avacanātmaka), and that of verbal expression (śabda, vacanātmaka). The verbal statement is only a reproduction of the mental operation which is by its nature unexpressible (abhilāpa-apoḍha). The utterance is a matter of a mere physical effort, the process of cognition having been accomplished in the sensuous or mental 'sphere' of the person, in the form of pratyaksa or anumāna respectively.

The communicative value of the word is to be cleared of all mental superstructure. It is to be an adequate means of cognition in that the person instructed gains from verbal communication as much as he would do by direct contact with the object of the communication; the name, being a perfect replica of the object, is to rouse in the listener's mental and psychological constitution a similar reaction to that roused by the object itself. Hence the fundamental distinction between the (svārtha-) anumāna and its pedagogically formulated offshoot, the parārtha-anumāna or sādhana 1).

¹⁾ Cf. Dharmottara's commentary on Nyāyabindu, p. 18, 4: parārthānumānam śabdātmakam, svārthānumānam tu jñānātmakam, and ib., p. 37, 18—20, where the subject of communicating knowledge for instructive purposes is discussed.

Although Stcherbatsky says 2) that the division into svārtha- and parārtha-anumāna is traceable in the Vaiśesika system, I cannot find much proof for that statement unless Prasastapāda is also included in the scheme. But Prasastapāda's and, later on, Sankaramiśra's division into two categories is undoubtedly influenced by Buddhist logicians and is thus of Buddhist origin. I should therefore rather abide by Stcherbatsky's original idea, as expressed some years before 3), that »...this style is in perfect agreement with the Buddhist theory of the word (apoha). Introduced much later into literature it is unquestionably of Buddhist origin «4). Faddegon's remark b) that »the distinction made by Praśastapāda and Dignāga between svārthānumāna and pararthanumana is merely a combination of the doctrines aught in the Vaisesika and Nyāyadarsanas« loses its substance, we accept Stcherbatsky's and Randle's contentions that Prasastapāda was later than Dignāga. Sankaramisra's Upaskāra, which certainly was not written before the early XVIIth century, follows the then generally accepted rule that anumanam is dvimidham⁶). A very remarkable thing is that the same division is made in the short treatise Nyāyāvatāra by Siddhasena Divākara, the Jaina logician, who was probably junior contemporary of Dignaga or flourished soon after him 7).

This would mean that the concepts of svārtha and parārtha fell on fertile ground, which, though psychologically prepared for the distinction, needed Dignāga's genius to submit them to proper definitions and formulations. The psychological disposition for the reception of these concepts in the Nyāya-Vaišeṣika systems was to be found in the interpretation of the savikalpaka-patyakṣa which has also been challenged by Dignāga's thesis

3) Le Muséon, Nouv. Sér., vol. V, 1904.

4) The translation is mine.

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6) Upaskāra to Vaišesika Sūtra 9, 9, 2.

²⁾ Buddhist Logic II (Leningrad 1930), p. 47 n.

⁵) The Vaiśeṣika System, Amsterdam 1918, p. 323.

⁷⁾ Jacobi's suggestion in his *Introduction* to *Samaraicca*that Siddhasena lived in the 7th century and knew Dharakīrti has been superseded by Suali, *Introduzione*, p. 38, and Vidyābhūṣaṇa, *Indian Logic*, p. 174.

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pratyaksam kalpanāpodham. But even the Nyāyasūtra⁸) defines perception as inexpressible (avyapadeśya), non-contradictory (avyabhicāri) and determined (vyavasāya-ātmaka = savikalpaka (?)). Although the attribute of being indetermined - unless we try to force upon the notion of inexpressibility the meaning of indetermination — is apparently missing, the Nyāyasūtra's definition might be reconciled with Vatsyayana's concept of the nirvikalpaka- and savikalpaka-pratyaksa, which was brought later to its fuller significance by Vācaspati Miśra. But this is just the point. Vācaspati Miśra, who discusses the problem in detail in the $Ny\bar{a}yav\bar{a}rttikat\bar{a}tp\bar{a}ryat\bar{i}k\bar{a}^9$) is, as it were, overwhelmed by the flood of logical and metaphysical objections poured upon him by the Buddhists, and in his diplomatic retreat admits the psychological shortcomings of savikalpatva, but maintains it as logical necessity. He realizes that the Buddhists did well to embody all the components of the savikalpaka-pratyaksa in the anumana. Udyotakara (p. 40) also defends this point by including manas in the indriyas and thus complying with the indriyasannikarsatva 10) of the perception. In this way he avoided encroaching upon the mental sphere and compromised by leaving perception to the sphere of sensuous cognizance.

It is to be remembered that pararthanumana means an inference for another person as well as by another person. In this way either species is to be considered at the same time in its subjective and its objective aspect as far as its epistemological function is concerned. The speaker, i. e. the subject of communication, is the source of cognition for the listener; the subjectmatter of the proof is imprinted on the former's mind in the form of an image 10a). The listener, however, who is the parartha of the pararthanumana, is also the subject of cognition for whom the speakers word (śabda) is an incentive to the mental reconstruction (samāropa) of the empirical phenomenon conveyed to

⁸⁾ I, 1, 4.

⁹⁾ Particularly 91 ff.: cf. also Stcherbatsky, Buddhist

Logic II, p. 276 ff.

10) The definition in Nyāyasūtra I, 1, 4: indriya-artha-sannikarşa-utpannam jñānam avyapadeśyam avyabhicāri vyavasāya-ātmakam pratyakşam. Cf. also Ruben, Nyāyasūtra, p. 2.

¹⁰a) Cf. Manoratha's commentary to Pramanavarttika II, 2.

(8) defines tory (avyaka (?)). Alwe try to g of indedefinition e nirvikallater to its t the point. tail in the ed by the oon him by he psychot as logical embody all anumāna. ing manas ikarsatva 10) g upon the

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him only by name. The first aspect does not offer any particular difficulty as long as it is accepted as pramāṇa, i. e. as a recognized means of communicating the inferred knowledge. The second aspect, however, raises some other doubts beside that of its recognition as pramāṇa. It touches upon the more general problem — which is of the utmost importance, especially for Buddhism — of the validity of speech and the possibility of teaching or learning by means of words 11). As the acceptance or refutation of this value of the word is the acceptance or refutation of Buddhism as a valid doctrine, no wonder that the Buddhist philosophers discussed at such great length this crucial question. The subject was found particularly appealing by the Vijnānavādins 12).

The gradual reduction of the members (avayava) in a syllogism, whatever metaphysical or ontological reasons (some adopted ex post) there may be, is marked by an undoubted tendency to simplify and formalize the syllogism so as to eschew a) any psychological element in the formulation and b) any repetition punarvacana) of items that another member may express or implicitly contain. So the five members of the pre-Siddhasena tenmembered syllogism have been abandoned even by the Jainists, as they contained elements such as doubt, desire to know, dispelling doubt etc. 13). There remain the five standardized members

¹¹) An interesting discussion on the subject will be found in the *Tattvasangraha*, 1463-1467.

¹³) Information on these members is given by Vātsyāyana, Nyāyabhāṣya 1, 1, 32. Cf. also Vidyābhūṣaṇa, Indian Logic, 121, and A. B. Keith, Indian Logic and Atomism, p. 86.

¹²⁾ Cf. Dharmakīrti's Pramāṇavārttika and Manoratha's commentary (R. Sāṇkṛtyāyana's edition in JBORS II, p. 4). It may be correct that Nyāyabindu in its discussion on the pratyakṣa was following the Sautrāntika view on the matter (cf. Mallavādin's Nyāyabinduṭīkāṭippaṇ̄, p. 19, 10 in Stcherbatsky's edition, also Stcherbatsky, Buddhist Logic II, p. 35 n., and Das Gupta, A History of Indian Philosophy I, p. 151 n.), but the Vijñānavāda view in Dharmakīrti's exposition of the imprint of the external object on the human mind, and the possibility of its conveyance another person is obvious. Mallavādin's remark ...sautrāntika—mata-anusāreṇa-ācāryeṇa seems to refer to Dignāga (ācārya) as the originator of Dharmakīrti's concept.

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such as pratijnā (thesis, proposition), hetu (argument), drstānta (instance, rule), upanaya (application) and nigamana (conclusion), which actually the Buddhists were the first to attack as systematically doubtful. An exhaustive account of all the vicissitudes of the syllogism in India is, of course, impossible in this short outline, and would require a separate monograph. Even in single philosophical schools opinion on the number of members in a syllogism varied. As an illustration of this treatises by Dignaga, Dharmakīrti, Śāntaraksita, Ratnakīrti etc. may be' mentioned. But also within other schools opinions seem to have varied. And so according to Varadarāja's Tārkikaraksā the Mīmāmsā syllogism consisted of three members (pratijna, hetu, drstanta). Śankara, however, analysing Gaudapādakārikā II, 4, finds there the pratijāā, hetu, dṛṣṭānta, hetūpanaya and nigamana; the kārikā in question does not mention explicitly the names of the members, nor is it obviously formulated in the spirit of the orthodox logical rules, and therefore Sankara's analysis suggests that he himself is inclined to maintain the old Nyāya principle of a five-membered syllogism.

In his Nyāyamukha and Pramānasamuccaya Dignāga seems to have entered on logical concepts, the ground for which had been prepared before him. So little is known of the problem of proof before Dignāga that only a few guesses attempting to reconstruct the train of thought may be ventured. The only member of a syllogism that, with very few exceptions, has never been questioned, is the hetu. For various reasons the pratijnā as well as drstanta, upanaya and nigamana were submitted to criticism and revision. The decision to purge the verbal instruction of all redundant elements led to the exclusion from a syllogism of all those members the functions of which were superseded by the function of another member. Thus nigamana went, which (according to some) was a mere repetition of pratijna, and thus upanaya went, which was only a pedagogical indication of the qualities of the correct hetu. It was apparently Nagarjuna who first noticed the redundance of these members, and gave a stimulus to a thorough revision of the verbal instruction. If we can rely on information from uncertain Chinese sources, Vasubandhu used two types of syllogism consisting of three and five memters respectively ¹⁴). As will be seen later, when Pārśvadeva's tiew on the two-membered syllogism is discussed, a new item reeps into the process of »inference for another«: Strict co-operation of the person to be instructed is required. The functions that were to be discharged by the respective, and now no longer terbally expressed, members of the syllogism, were to be performed in the mind of the listener. On the other hand, it is the practical purpose of the syllogism and not its rigidly academic structure that is to be borne in mind by the speaker at the time of instruction ¹⁵). In this way the Buddhist logicians have the merit of freeing the syllogism from its proverbial rigidity and from its purely academic purport, in spite of the fact that they imposed on it even stricter formalization than it had before.

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There was a good deal of argument following the abolition of the *upanaya* and *nigamana*; it was a surprise, however, when the Buddhists questioned the authority of the *pratijñā*, denouncing it as unessential and superfluous. This contention roused protests from the mightiest representatives of the Naiyāyikas, vaisesikas and the syncretist schools. The main objection was: a syllogism (or as we might put it, in an implication if (a) p then (a) q' as in (a) p then $(a) q'^{16}$, (a) p (= hetu) must fulfil the condition of paksadharmatva, i.e. must be a recognized (siddha) redication for both functors in (a) q. In other words both statements whe mountain is smoky and whe mountain is fiery a

14) Cf. Vidyābhūṣaṇa, *Indian Logic*, p. 269. Cf. also Bandle, *Fragments from Dignāga*, p. 27, n.

According to Chinese sources it was Vasubandhu who isposed of the last two members, which would be a reasonably strong argument against accepting his authorship of the *Tarkatstra* where five members are maintained; cf. Tucci, *Pre-Din-Buddhist Texts on Logic from Chinese Sources*, p. IX.

¹⁵⁾ Cf. Kamalašīla's commentary on Sāntarakṣita's Anumāna
nīkṣā 1435: »If you say to a soldier (tib. gnag. rdzi = shepherd)

ho does not know the usage of the anvayavyatireka »where
here is smoke there is fire then he will realize the sapakṣa

nd vipakṣa though you stated only thus much and no more; he

also, not knowing other terms, come to the correct conclus
that there is fire in this particular place. Question: when
hen do you use the term sapakṣa etc.? Answer: In a formal and
heoretical analysis (śāstra)«.

must be both separately and jointly correct. On the other hand, this statement (a) p is not true unless (a) q is true and thus the correctness of the hetu is verified by the statement of the pra $tij\tilde{n}\bar{a}^{17}$). If the pratij $\tilde{n}\bar{a}$ is gone there is no instance to verify the correctness of the hetu, viz. its paksadharmatva, and so the whole syllogism is invalid and is no proof at all. Furthermore, it is silly to prove something without informing your audience what you are going to prove. The statement 'if (x) p then (x) q' or (if you like) 'if not (x) p then not $(x) q' (= s\bar{a}dharmya$ - and vaidharmyadrstantas) is also an instance for verification of the hetu provided a sapakṣa and not vipakṣa (homogeneous and not heterogeneous) example with (a) is substituted for (x). And so when in the drstanta a term homogeneous with (a) is substituted for (x) in either (x) por (x)q, the drstanta must give a true statement; if a term heterogeneous from (a) is substituted for (x) in either (x) p or (x) q, the drstanta must give a false statement. But since sapakşa or vipakşa are the linking elements between the pratijñā, and drstānta, the $pratij\tilde{n}\bar{a}$ must be there 18).

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Dignāga's opinion on this point is given in the Nyāyapraveśa more clearly than in any other work. The controversy as to the

¹⁷⁾ In both my Probleme and Overlooked Type of Inference (BSOS 1942) I tried to prove that an Indian syllogism cannot be analyzed satisfactorily by Aristotelian methods because no inclusion of names is intended to be proved, but only facts stated in sentences. I therefore substitute here (a) p for *the mountain is smoky*, and (a) q for *the mountain is fiery*. By (a) is meant that the fact proved refers to this (and no other) particular mountain. (x) indicates any possible object that could replace *mountain* provided it is predicable by p or q. Whenever relations between the major, middle and minor terms are to be established, I shall use the Sanskrit equivalent for the term, as an Indian syllogism is not a sentence-calculus par excellence, but its anticipation only.

¹⁸⁾ Strange as it may seem to a Western logician, this was a generally observed rule in Indian logic. It is important, however, to keep in mind that an Indian syllogism construed in the form of implication does not entirely cover our postulates of an implication, because the condition for any statement $\inf p$ then $q \in \mathbb{R}$ in India is the causal relationship between the protasis and apodosis. There are, though, some exceptions even here, but lack of space prevents me from discussing this in this paper.

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Inference. annot be no inclustated in intain is is meant r mounountain« between I shall yllogism on only. this was t, howei in the es of an then q^{α} nd apolack of the wording of the definitions would however advocate the acceptance of Śańkarasvāmin's authorship. But whoever the actual author was, the work is undoubtedly inspired by Dignāga's doctrines. On p. 110 of his Buddhist Logic, vol. II, Stcherbatsky says that »Dignāga in his reform has dropped thesis, conclusion etc.«. Though true in its main outline this statement requires some modification especially in regard to the entire abolition of the thesis by Dignāga. And the following may be concluded from the logical works of Dignāga, which are known to us wholly or in fragments, viz. the Nyāyamukha, Pramānasamuccaya. (Nor must the Nyāyapraveśakārikā be left unmentioned).

First of all, Dignāga's criticism of the pratijnā as defined by the Naiyāyikas (sādhyanirdeśah pratijñā) which Dignāga corrects by adding eva19) in the P. S., stresses the fallacy in the statement of the proposition and the consecutive logico-formal fallacies, but replaces pratijnā by pakṣa. The shifting of this term s of considerable importance in so far as it removes the difficalty of stating the thesis before it has actually been proved by recognized hetu and dṛṣṭānta. Since, as the Naiyāyikas say, the ratijnā has the value of an informative enunciation of what is to be proved, it is no member of the proof, as proving and not anticipating is the task of a syllogism. Paksa is a member of the proof and not merely a declaration of it. Thus nigamana is unnecessary, for pakṣa fulfils those two functions that were previously incorrectly assigned to the pratijna and its affirmation within the proof) nigamana. Thus, it was not so much the employment of the pratijna that Dignaga took exception to, but the Naiyāyikas' inconsistency between the definition and the applicasion of the pratijnā. Yet, there is, no doubt, a great deal of confusion in Dignāga's concept of pakṣa. From Dharmakīrtis criticm it appears that Dignaga considered pakṣavacana (not pakṣa) as as adhana 20, that is, a functor whose statement in the proof dit not contribute to the correctness of the proof. The three-aspect argument (trirupahetu) was quite sufficient for that purpose. Yet,

¹⁹) Cf. also Stcherbatsky, Buddhist Logic II, p. 155 n. 1. ²⁰) Pramāṇavārttika IV, 25 and IV, 16 ff.

why did Dignāga go through all the trouble of defining the pakṣa and discuss it so broadly? — asks Dharmakīrti 21).

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The answer is *gamyārthatve 'pi sādhyokter asammohāya, i.e, (adding Manoratha's explanatory notes to the kārikā) the description of the pakṣa is given, for the statement of the pakṣa has the capacity of making clear the subject-matter of the proof and also of removing any obscurity as to the fact, which is to be proved «. The caturlahṣanam (viz. sādhyam) in the next line makes it clear that one ought to know according to what siddhānta, i.e. tenets of a particular school of thought, the proof is formulated. Coming back to the Nyāyapraveśa, let us add to the above description the definition of sādhana as given by the Nyāyapraveśa. In the latter no abolition of the pakṣavacana is recommended but, on the contrary, the 10th kārikā says anityah śabda iti pakṣavacanam... etāny eva trayo 'vayavā ity ucyante. In the light of these excerpts the following re-establishment of Dignāga's view on the two-membered syllogism seems to be possible:

The universal proposition in the drstanta »if (x) p then (x) q, and (a) p = hetu (then $(a) q = s\bar{a}dhya$) is sufficient and its application to the (a)q is just a matter of redundant expression. Its omission or inclusion does not affect the validity of the syllogism. It is a matter of purely mental operation, which, if you are dealing with reasonable and logically trained people, need not be pressed home. It is just an omission and not a deficiency in a syllogism, as Dharmakīrti ironically remarks 22), alluding to the Naiyāyikas and their definition of a defective syllogism (nyūna) in Nyāyasūtra 5, 2, 12. The best explanation of the matter is given in Śantaraksita's Anumānaparīksā (see supra), where it is said that in academic discussions where one can never be too accurate, the whole scholastic equipment is to be precisely applied. but in everyday-life one need not be punctilious or professorial This statement by Santaraksita is not to be underestimated in view of the fact that in his days of scholastic disputes and hairsplitting subtleties a correct verbal formulation was decisive for the opponent's victory or defeat.

An adequate and brilliant exposition of Dignaga's concept

²¹) Pramāņavārttika IV, 23.

²²) Pramāṇavārttika IV, 23.

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of the paksa is given by the commentators of the Nyāyapraveša On Sankarasvāmin's definition of the sādhana being pakṣādivacanāni sādhanam, Haribhadra comments that pakṣādio is a bahuvrīhi, and substitutes upalaksita for ādi. This ingenious interpretation, however far from the author's intention it may be, offers perhaps the best solution to the problem of the paksa. From it it follows that the paksa may not be expressed but is implied by the hetu and drstanta, and all verifications, as is suggested by Parśvadeva's commentary, are to be performed mentally by the process of upanaya. Thus we have another case of the reduction two members of a syllogism to mere psychological functions, and the clearing of the verbal instruction from those operations which are to be performed in the mind only. Both paksa and upanaya, as may be realized, are accepted by Pārśvadeva, but their functions are those of silent co-operation between the instructor and the terson instructed.

To conclude, we might say that in spite of the great vamety of his theories and opinions, the mediaeval Buddhist logican has not given a final formula for the construction of a syllogism. Yet the discussions are marked by a clear tendency towards simplification and formalization of the syllogism. Nevertheless refinement and subtlety in the approach to the problems on the one hand, and the constant vigilance against a potential opponent, on the other hand, were more of a handicap than an advantage to a Buddhist philosopher. Not even Dignaga or Dharmakīrti or Śāntaraksita achieved a solution which would enable the reader to pin down the problem finally. Dharmakirti is prepared to abandon the drstanta on the ground that inductive knowledge which leads to the realization of certain general relations s good for an inference for oneself; but in instructing others the deductive universal proposition suffices to lead to singular condusions. Immediately, however, this subtle thinker corrects this rigid theory by adding that a drstanta, though not essenmight serve as a good criterion for the veracity of the uni-Tersal proposition 23). (By drstanta is of course meant here the

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²³⁾ Cf. Nyāyabindu 122, where the drstānta is treated sepa-

example only, without the universal proposition). Śāntarakṣita, who generally supports in his views Dignāga rather than Dharmakīrti, is willing to accept the view that the proposition (pakṣa) is superfluous, but insists on drṣṭānta being maintained ²⁴).

For Śāntaraksita the $pratij\tilde{n}\bar{a}$ is also an outsider, a mere exhortation $(pratij\tilde{n}\bar{a} = abhyanuj\tilde{n}\bar{a})^{25})$ to formulate a proof, but is not a member of a syllogism.

The prima facie metaphysical reasons which, as a matter of fact, are reduced to no more than logico-formal ones, make Ratnākara reject the dṛṣṭānta in his Antarvyāptisamarthana 26). He says (p. 104): In the dṛṣṭānta you grasp the concomitance of elements that are contained in it (i.e. in the dṛṣṭānta); in the pakṣa, however, you grasp the concomitance indicated by the hetu. And this (concomitance) is based on generality for it summarizes everything (i.e. all the general relationships between the hetu and the predication of the probandum). The function of this generality is to be realized and applied to the subject of the probandum by means of inference.

In the further part of his treatise, Ratnākara sums up the function of an inference and, at the same time, presents the difficulty in applying the drstanta, in its isolated scope, to the probandum. He sees no necessity of using one complete implication (drstanta here = universal proposition) to prove another (viz. $s\bar{a}dhya$). He seems to be near to anticipation of the simple truth, which is so obvious from our point of view, namely, that once the general relationship is established as a result of inductive reasoning, the $s\bar{a}dhya$ and the drstanta are merely two different inferences based on the same general relationship. The fact is, that it is a mere matter of choice what one substitutes for (x) in (x) p, whether it is drstanta or $s\bar{a}dhya$. In the implication if (x) p then (x) q it makes no difference whether one substitutes for (x) the kitchen range or the mountain. This idea is intimated in Dharmakīrti's concept of drstanta, on which he eventually com-

²⁴) Anumānaparīkṣā 1432—3 and Kamalaśīla's commentary. A reference to the *Pramāṇasamuccaya* IV, 1 is also made.

²⁵⁾ Ibidem.

²⁶) Bibliotheca Indica, New Series, 1226, 1910, pp. 103-114

promised, accepting, where necessary, two substitutes for (x) in one syllogism. Exactly the same view is to be found in the Antarvyāptisamarthana where the inner concomitance without drstānta is admissible for probanda like kṣanikatva which form a class in themselves, but a drṣṭānta may be used for probanda which have a class of sapakṣa.

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