Studies on Bhartrhari and the Pratyabhijñā: The Case of svasaṁvedana

Marco Ferrante

Institute for the Cultural and Intellectual History of Asia, Austrian Academy of Sciences, Hollandstraße 11–13, 1020 Vienna, Austria; marcoferrante80@gmail.com or marco.ferrante@oeaw.ac.at

Received: 30 June 2017; Accepted: 2 August 2017; Published: 7 August 2017

Abstract: The article addresses a critical problem in the history of South Asian philosophy, namely the nature of the ‘knowledge of knowledge’ (svasaṁvedana). In particular, it investigates how the Saiva tantric school of the Pratyabhijñā (10th–11th c. CE) used the notion as an argument against the Buddhists’ ideas on the nature of the self. The paper then considers the possibility that the source of the Śaivas’ discussion was the work of the philosopher/grammarian Bhartrhari (5th c. CE).

Keywords: Pratyabhijñā; Bhartrhari; Buddhist philosophy; soteriology; Indian philosophy; epistemology; ontology; Tantrism; Hinduism; Hindu philosophy

1. Introduction

This article is the first outcome of an ongoing project that is assessing the impact of the grammarian/philosopher Bhartrhari (5th c. CE) on the thought of the Pratyabhijñā, in particular on the phase of that school as reflected in the works of Utpaladeva (925–975) and Abhinavagupta (975–1025).¹

The fact that Bhartrhari influenced this Śaiva tantric tradition is certainly not news. It was already noticed by the editors of the Kashmir Series of Texts and Studies at a time in which the grammarian’s masterpiece, the Vākyapadīya (VP) was mainly accessible through manuscripts.² Since the textual and hermeneutical knowledge of both Bhartrhari and the Pratyabhijñā has consolidated over the last decades, the interest of scholars in this particular issue has started to grow.³ Some affinities have been easily noted: both traditions, for instance, defend a non-dualistic metaphysics and emphasize the importance of language in humans’ understanding of reality. Yet, to get to the core of the relationship between the two traditions, a third element must be introduced, namely the role that Buddhist thought—in particular that of the Pramāṇavāda school—played in defining the aims and the arguments of the Pratyabhijñā.⁴ That many doctrines of the school derive from Utpaladeva’s innovative fusion of ideas more or less explicitly inspired by Bhartrhari and arguments developed by the Pramāṇavādins (Pratyabhijñā’s main opponents but also a major source of philosophical inspiration) is a mainstay of the work that has been done by Raffaele Torella.⁵ In his 1994 edition and annotated translation

¹ For the dates of the Pratyabhijñā’s authors, see (Sanderson 2007, p. 411).
² Already in 1938, the editor of the Iskurapratyabhijñātavirttevinirmarsīn (IPVV), M.K. Kaul, detected an impressive number of stanzas quoted from the VP.
³ Several publications, with various degrees of emphasis and depth, touch on the relationship between the Kashmiri authors and Bhartrhari; see (Iyer 1969; Dwivedi 1991; Torella 2002; Torella 2008; Rastogi 2009; Ratié 2011; Vergiani 2016).
⁴ Utpaladeva and Abhinavagupta knew the work of the two main authors of the Pramāṇavāda, Dignāga (early 6th c. CE) and Dharmakīrti (7th c. CE), possibly through the mediation of Dharmottara (740–800 CE). The influence of the Pramāṇavāda on the Pratyabhijñā is the main topic of (Torella 1992); on this point see also (Ratié 2011), the most comprehensive and up-to-date monograph dedicated to the Pratyabhijñā.
⁵ As late as 2014 Torella summed up the situation as follows: “The philosophy of Pratyabhijñā is built upon two main cornerstones, both of them due to Utpaladeva: the above mentioned attitude to the Buddhist pramāṇa philosophers, made
of Utpaladeva’s magnum opus—the Īśvarapratyabhijñākārikās (IPK) accompanied by the author’s short commentary thereon, the Vṛtti (IPKVṛ)—Torella already suggested that Utpaladeva employed concepts that are traceable in Bhartrhari’s texts with the intention to attack one of the most basic conceptions of Buddhism—if not the most basic—namely the idea that the self is a fictitious notion (nairūtmyadarśana). In 2008, Torella returned to this question by focussing on the history of Bhartrhari’s appropriation by the Pratyabhijñā. He dealt in particular with the radical change that occurred between Somānanda (900–950), the founder of the school, and his disciple Utpaladeva. The former’s main work, the Śivadrśti (ŚD), contains in fact a long tirade against Bhartrhari’s conceptions, in which the author exhorts the grammarians to mind their own business and not worry about philosophical questions (Torella 2008, p. 512; Nemec 2011, pp. 59–67). In contrast, Utpaladeva’s stance towards Bhartrhari was much more favourable. Possible reasons behind these diverging attitudes are that the two authors had a different readership in mind and were operating in different intellectual contexts. The most striking peculiarity of the ŚD is how it combines mystical insights with criticism of opposing philosophical views. This was the consequence, as John Nemec has it, of the work being “probably intended for a philosophically oriented audience, but one that was primarily made up of tantric initiates, or for potential initiates who would be predisposed to the scriptural tone and high, if mixed, register of the work” (Nemec 2011, p. 20). In contrast, Utpaladeva was less concerned with religious questions than with a rational justification of the Śaiva doctrines. He therefore considered it necessary to place the Pratyabhijñā into the broader field of non-sectarian debate, by discussing his own ideas in connection with those of other traditions, including Buddhist Pramāṇavāda, Bhartrhari, Nyāya-Vaiśeṣika, Mīmāṃṣa and Sāṃkhya. Why this happened precisely with him is difficult to say. Torella has hypothesized that the purpose of Utpaladeva’s version of the Pratyabhijñā was “to offer itself implicitly as an alternative to the dominant Śaiva Siddhānta, or at least to establish itself as a non-extraneous element” (Torella 2002, p. xiii); Alexis Sanderson, on the other hand, has stressed that the decision derived “from the nature of the commentators’ social milieu, which is one of Śaiva brahmins eager to consolidate their religion on the level of high culture” (Sanderson 2007, p. 241). Whatever the reason, Johannes Bronkhorst is certainly right in pointing out that Utpaladeva’s openness towards others testifies to the radical influence that opponents’ tenets had had on the Pratyabhijñā. In addition, implicitly, it also proves how remarkable the capacity of attraction of the Indian rationalist tradition was, if even tantric gurus were finally forced to prove their theses by turning to philosophical scrutiny (Bronkhorst 1996, p. 2). With regard to Bhartrhari, Utpaladeva must have realized that in this new context, where the Pratyabhijñā was competing on a wider arena, he could count on the grammarians’ arguments to promote his own ideas and to challenge those of his rivals. This is why in the timespan of a generation, if one wants to keep Torella’s expression, Bhartrhari abandoned the role of “the main adversary” by taking on that of “the main ally”.

Now, this paper is a first attempt to continue to follow the thread Torella and others have picked up. My central claim is easily formulated: I believe that Bhartrhari’s ideas lie behind several aspects of the Śaivas’ theoretical construction. The Pratyabhijñā’s appropriation of these concepts was intentional and selective, in the sense that it was subordinated to the school’s philosophical agenda, which in turn had been largely defined by its stormy relationship with Buddhism. Among the various cases of...
acquisition and reworking of Bhartrhari’s concepts one is particularly subtle and it has been largely overlooked. It concerns an epistemological theory that was widely debated by South Asian pramāṇa theorists, that is, the idea that a cognition is by definition able to reveal itself. The notion—technically expressed by terms such as svāsvamvedana, atmaśanvedana, svāsvāvittī etc.—comes down to the fact that when cognizing an entity one is also always aware of the cognition itself. For example, when seeing a blue lotus one is necessarily aware of the cognitive act directed at the lotus. This opinion is obviously questionable but it is nevertheless adopted by all the thinkers under analysis here—Bhartrhari, the Buddhists Pramāṇavadins, and those of the Pratyabhijñā—although it is given a somewhat diverging connotation by each.

The main contention of this article is that Utpaladeva and Abhinavagupta offer a peculiar and restrictive interpretation of svāsvamvedana in order to mount an attack on the Buddhist idea of nairatmya.

This idea has been inspired by several stanzas of Bhartrhari’s VP, a couple of which are explicitly quoted by Abhinavagupta in the Īśvarapratyabhijñāāvivrttivimarśini (ĪPVV). In what follows, I shall devote the first section to clarifying the theoretical premises of the debate and to summing up the Buddhist view of the question. The second will explain why self-reflexivity of cognitions played a pivotal role in the Pratyabhijñā’s perspective, and how its main thinkers presented the notion as an argument to defend the existence of a real self. Finally, I shall explore the possibility that Bhartrhari was the source of the Pratyabhijñā’s analysis.

2. svāsvamvedana: the Theoretical Background and the Buddhist Position

The dispute on the nature of the knowledge of knowledge predates the establishment of the Pratyabhijñā, and by the time the school had reached its height it had long been a source of confrontation among South Asian philosophers. To disentangle the intricacies of the debate one can refer to a scheme developed by B.K. Matilal (Matilal 1986, pp. 141–79), who arranged the controversy in terms of contrasting propositions. The model is rather detailed but for our purposes a simplified version is sufficient. There are two main theses facing each other:

T₁: a cognition C₁ grasps an object or an event and also itself.
T₂: a cognition C₁ grasps an object or an event, but in order to apprehend C₁ another cognition is necessary, C₂.

Generally speaking, T₁ is accepted by the Buddhists, the Pratyabhijñā, Bhartrhari and the Prābhākara Mīmāṃsā. T₂ is endorsed by the Nyāya-Vaiśeṣika and the Bhāṭṭa Mīmāṃsā. This main dichotomy generates further alternatives, the following being those that most concern us:

T₃: once a cognition C₁ arises, it is necessarily aware of itself.
T₄: once a cognition C₁ arises, the fact that such a cognition is also self-aware depends on contingent factors. In other words, it is not true that any cognition is necessarily aware of itself. Some cognitions may arise without being cognized.

T₃ is supported by both Mīmāṃsā denominations, the Buddhists, the Pratyabhijñā and the Advaita Vedānta. T₄ is defended by the Nyāya-Vaiśeṣika and, in the peculiar way we are going to discuss below, by Bhartrhari.

Despite the usual historical provisos, we are reasonably sure that the question was first formalized by the Buddhist Pramāṇavadins, specifically by Dignāga in the Pramāṇasamuccaya (PS). In PS 1.6, Dignāga affirms that cognition’s self-awareness has a non-conceptual nature, it being a form of

---

7 For a study of the historical development of the question in the Buddhist sources see (Yao 2005). The following quotations from the PS are taken from Steinkellner (2005). There were meaningful but unsystematic antecedents in the Brahmanical thought, especially in the Upaniṣads, which were later expanded and refined in the Vedānta traditions. On this see (Timalsina 2009, pp. 16–33). On this see (Timalsina 2009, pp. 16–33).
perception. This means that svamrajvedana is a rightful means to acquire knowledge, exactly in the same way standard, sense-based perceptions are. The text further adds that to have a non-conceptualized self-awareness of a conceptualized cognition is perfectly legitimate. In other words, a cognition may be conceptualized (vikalpaka) as far as its content is concerned, but its self-awareness is always perceptual.

Dignāga’s most decisive contribution comes nevertheless in PS 1.11, where he states that cognitions have a double nature (dvitiyāpatti), meaning that they cognize at the same time both their content and themselves. In the corresponding Vṛtti (PSV) the author puts forward three different reasons to support this claim. First, he argues that if a cognition were to possess just one nature—be it its own-one (which he calls the svabhāsa aspect) or the content-one (the viśayabhāsa one)—one would encounter problems, because the distinction between the ‘cognition of the object’ and that of the awareness of the cognition of the object’ would collapse. Second, if cognitions possessed just the svabhāsa nature, thus lacking the viśaya one, a later cognition would be unable to illuminate the content of a former one, because the content of the earlier cognition will be gone when the later takes place. Third, memory itself is a proof that a cognition has two forms: when one remembers something, both the former cognition and its content are in fact recollected. This third consideration also proves that cognitions are self-aware, since memory applies only to what has already been experienced: if I remember that I perceived a blue lotus it means that the perception of the blue lotus has previously been cognised.

It goes without saying that one could explain the awareness of this perception differently, that is, by arguing that the original perception is cognised by a second one (proposition II of Matilal’s scheme). Nonetheless, Dignāga rules this possibility out immediately because it would lead to infinite regress: to negate that cognitions are self-aware requires the postulation of a second-order cognition to explain the first, then a third to explain the second and so on. Hence the conclusion, accepted by the whole ensuing Buddhist tradition, is that a cognition necessarily reveals both its content and itself.

The discussion is then carried on by Dharmakīrti, Dignāga’s most influential follower. His treatment of self-awareness has been less studied than his predecessor’s, but one can rely on a recent essay by Birgit Kellner that focusses on the Pramāṇaviniścaya (PVin), a study I am mostly following here (Kellner 2011, pp. 420–23). Differently from Dignāga—whose most compelling argument in favour of svamrajvedana is founded on the impossibility to explain memory without resorting to second-order cognitions—Dharmakīrti’s defence of the concept is linked to one of his most crucial epistemological

---

8 mānasaḥ ca rādhāgadisanscaya atalikalikā (PS 1.6ab); “and the self-awareness of objects or feelings and so on is non-conceptual and it is a form of mental [perception]”.
9 kalpanāḥ svamrajvedāt adhātārthave dvitiyāpattā / (PS 1.7ab); “Even conceptual knowledge is to be accepted [as a perception] when it is directed at itself. However, this is not the case when it is directed at an object, because there is a conceptualisation [of the object]”.
10 PSVṛtti adds: tatra viśaye rāgādīsved eva apratyaksātve ‘pi svaṃ samvedītī na dūṣh “There is no mistake [at all in claiming that even] in the case of a content that is not grasped by a direct perception, such as feelings etc., there is self-awareness”.
11 visajñātanāta/jñānaviśedī / (PS 1.11ab); “A cognition has a double nature, because there is a difference between the apprehension of an object and the apprehension of that [cognition of the object]”.
12 na cattāro rādhāgadisanscaya viśayā tiṣṭhānāṃ svakā samāpātāṃ vā, jñānāntarā ca visajñātanāta/jñānaviśedī / (PSV on 1.11ab); “Otherwise, if the cognition of an object were to represent either its content or its own form only, then there would be no difference between the cognition of a cognition and the cognition of an object”.
13 na cotātārāntarā jñānāni pūrva-prakṛṣṭaviśayābhāṣāni svabhāvyānā ca, tasyāya scārabhāvyātā atata ca sādhavā dvārāpyām jñānasya (PSV on 1.11ab); “Moreover, if a cognition were to consist of the viśaya aspect only] then later cognitions would not make manifest objects that are remote from them in time, because they would lack a content. Therefore, the double nature of knowledge is established”. That Dignāga is referring here to the case in which a cognition is supposed to have the content aspect only is not explicit stated in the Vṛtti. Yet it can be surmised from Jinendrabuddhi’s commentary, as shown by Kellner in (Kellner 2010, pp. 211–13).
14 āvagoc cābhāvabhattevāhāram viśayā iva jñāne ‘pi smṛtv utpadyate, tasmat asti dvārāpyām jñānasya svamrajvedāt ca (PSV on 1.11ab); “Since memory arises in a moment that follows that of the perception, [and arises] for the content and the content as well, hence a cognition has two forms and a self-cognizing nature”.
15 na by abdo avibhāvate (PS on 1.11); “For [memory] does not concern what has not been [previously] perceived”. The Vṛtti thereupon says: na by abdo abdābādo vā cābhāvabhatte vā cābhāvabhatte vā (PSO on 1.12); “In the case of the perception [of a cognition] by a different cognition, there is infinite regress, for there is memory [of that second-order cognition] too”.

tenets. In PVin 1.54 he in fact claims that a cognition does not really differ from its object, since both are perceived together at the same time: if a cognition were not perceived, its content would not be perceived either. In the prose commentary thereupon Dharmakīrti goes into the details of this problem. His task is twofold: he must first explain why one never has the perception of an object without that of the cognition. Then, he has to describe how such a perception takes place. As for the first question, the arguments Dharmakīrti provides are not particularly compelling. In the end, one gets the impression that he has failed to explain why a cognition must always be cognised together with the object. As Kellner puts it: “the problem [. . . ] is that while one may grant [. . . ] that perception needs to exist in order for the object to be perceived, this by no means entails that the perception needs to be known in order to exercise its function” (Kellner 2011, p. 421). However, what concerns us most is the discussion of the second issue—how actually a perception is known—since it is here that svasaṃvedana comes up again. Dharmakīrti in fact claims that a cognition can be cognised only by itself; to suppose that is revealed by another one is unsound for at least two reasons. First, one would end up in the rather bizarre situation in which the object is not established at the time of perception—since the perception cognising it has not yet been established—but it is established at the moment of the subsequent cognition, when the object has clearly vanished. Second, one would again fall into the infinite regress trap: postulating the existence of a second-order cognition to account for the first requires a third-order one to explain the second and so on.

That said, Dignāga and Dharmakīrti’s ‘epistemological’ interpretation of svasaṃvedana is not the only one Buddhist philosophy has offered over time. One has to mention at least one further version, endorsed in the works of slightly later thinkers such as Śāntarakṣita and Kamalaśīla (8th c. CE). Śāntarakṣita’s discussion of self-awareness largely takes place in a chapter of his Tattvasaṅgraha (TS) dedicated to the investigation of nature of external objects (bahirarthaparākṣa). Here the author is defending the idea introduced by Dharmakīrti whereby the content of a cognition and the cognition itself do not differ at all. The conception is heavily criticized by other schools, in particular by the Mīmāṃsā, whose position Śāntarakṣita is presenting here by quoting extensively from Kumāra’s Ślokavārttikas (SV). The refutation of Kumāra’s positions is carried out by exploiting the epistemological argument and the memory argument based on infinite regress we have already

16 sabapalambhaniyamād abheda niyatadhiyogopratyakṣopalambyambhāṣyā nārthaḥpratibhīṣṭaprasidhyate (PV in 1.54); “There is no difference between ‘blue’ and the ‘cognition of blue’, since the two are necessarily grasped together. For those who do not perceive the perception, the object is not established either”. (Dharmakīrti 2007, pp. 39–40).

17 With regard to this, Kellner concludes that this is a “glaring gap in Dharmakīrti’s argument” unless he assumed “a principle not uncommon in South Asian philosophizing [...] namely that whatever makes something else known has to be known itself” (Kellner 2011, pp. 421–22).

18 upalābhyāt samvedanam anuyeti cet, sa tātātātā sva-upalābhyām bhāṣyā na siddhah, siddher asiddheḥ, anyopalābhyām tu siddhā ity upalābhyām ‘pi tātātā tātātātā sādṛśyatvā śādhiḥ iti sūkhyātām. “One may object that a cognition is apprehended by another [cognition]. We reply to begin with, that [in that case] the object is not established at the time of its own perception, since its very perception is not established, but then it is established when another perception takes place. So, [according to your view] the object is not established even if there is a cognition of it, but it is established in another time in the opposite case [i.e. when there is no cognition of it anymore]. Very well-said indeed!” (Dharmakīrti 2007, p. 41).

19 anuyeti samvedanopalambhāḥ so ‘yu asiddhiḥ samvedanaḥ na sādṛśyatvāt upalābhyamkirttanaśoḥ. “If the cognition of cognitions is explained on the basis of a different, [second-order] cognition, such a cognition would be unestablished too, and unable to establish the [first-order one], then a further cognition would follow”. (Dharmakīrti 2007, p. 41).

20 paricchedād sa kāṣṭeti na ca parigraṇayogabāḥ/paricchedād sa taṣṭyātāva sūkhyād hāttadādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītādītातु

seen at work in Dignāga’s and Dharmakirti’s discussion. This is particularly evident in TS 2022–2023 (where Śantaraksita sums up the epistemological argument introduced by Dharmakirti in PV in almost paraphrasing it)\(^{22}\) as well as in TS 2024, which clearly evokes Dignāga’s appeal to infinite regress.\(^{23}\) Still, Śantaraksita considers two further features of self-awareness that Dignāga and Dharmakirti did not take into account explicitly: self-awareness is not determined by other cognitions,\(^{24}\) and it is the hallmark of the living.\(^{25}\) All of this has induced Paul Williams to define two fundamental ways Buddhist philosophers coped with the notion of svāsāṃvedana. While Dignāga and Dharmakirti adopted an ‘intentional’ conception of self-awareness (Williams 1998, p. 30)—in which a cognitive event is aware of itself as an object—Śantaraksita, both in the TS and in the Madhyamakalākāra, backs also a further variety, which Williams calls the ‘reflexivity’ type of self-awareness. In this latter case, as Williams remarks, “consciousness is self-referencing in a non-objectifying way, just as a lamp illuminates itself not as one object among others to be illuminated, but through the very act of being a lamp, an illuminator of others” (Williams 1998, p. 20). Whereas the ‘intentional’ type of self-awareness exemplified in Dignāga’s and Dharmakirti’s works, “in some sense takes an object, and in some sense that object is itself” (Williams 1998, pp. 20–21), in this second case, svāsāṃvedana is to be intended as pure reflexivity. As such, it does not require any philosophical inquiry, being perfectly evident even to the man in the street.\(^{26}\)

Conceived as pure luminosity, svāsāṃvedana is therefore for Śantaraksita ‘not objectified by knowledge’ as well as the factor that ‘distinguishes the living from what is inert’.\(^{27}\) As we are going to see below, these two points are pivotal also in the Pratyabhijñā’s understanding of svāsāṃvedana. However, even more crucial is the opposition between the intentional and the reflexive type of self-awareness. Utpaladeva and Abhinavagupta consider these somewhat contradictory and use this as an argument against the Buddhists’ way of conceiving self-awareness and, more generally, against their understanding of reality.

### 3. The Pratyabhijñā: svāsāṃvedana as an Argument

Most of Utpaladeva’s epistemological claims are put forth in the Jñānādhiktāra—the first of the four chapters that make up the IPK—where the philosopher generally aims at establishing the existence of

---

\(^{22}\) jñānādhiktāraṁyuhāre svāsāṃvedanaṁ bhūtyā niḥsaṅgatāṁ siddhiḥ sa ṣu ṣaṁcitāḥ siddhiḥ sa ṣu ṣaṁvitāḥ ca siddhiḥ svāsāṃvedanaṁ pramāṇavādī siddhiḥ tu sa ity etat subhāṣitaṁ// (TS 2022–2023); “If in order to cognize itself a cognition must be perceived by another, then the object is not established, because its cognition is not established; when then will be the object established? If it happens at the time of the establishment of the object (i.e., at the moment of a second-order cognition), then [the consequence is that] the object is not established when its own cognition takes place, but is established when the cognition of something else takes place. This is really well-said”!".\(^{23}\)

\(^{23}\) tāsāvyān ucyānte niḥsaṅgataṁ siddhiḥ prathamaṁ tattvād sattvāṁ pratisamāñcitaṁ ṣaṁvitāḥ pratisamāñcitaṁ samāñcitaṁ pratisamāñcitaṁ sapāryāntaṁ pītaṁ pratisamāñcitaṁ siddhiḥ putvā // (TS 2024); “If the ‘cognition of the cognition of an object’ is not established, the cognition of the object is not established either, and if another cognition is applied to the former (i.e., to the cognition of the cognition of the object: the second-order cognition) then infinite regress follows”.

\(^{24}\) svāsāṃvedanāyaṇaḥ vedakaṁ na vyayaṇaḥ na cārtiṇaṁ astidam ity artho ‘yam svāsāṃvedah// (TS 2011); “This is the meaning of self-awareness: it is that which in order to reveal its own form does not require any other knowing entity, and that is not cognised”.

\(^{25}\) svānāvajnaṁ jadāntapriyām vajasanāṁyarātPrakāraṇaṁ yuṣyāh tattvāditiyaṁ evaṁ vajjaṇanāneṇvāt arṣya ya ‘jātaśitaḥ// (TS 1999); “A cognition inherently manifests itself as different from inert entities. This self-awareness of cognition consists of being conscious”. Kamalāśīla elaborates on this by saying: “na hi prahatkāmānānāmaḥ samānvedanaṁ ahampratām, kim tathā? saµyam, pratāpād prakāmānaµ, nabhastalavarttyālokaµ. “For self-awareness is not to be meant as based on a knowing entity. On what then? On itself, since its very nature has the nature of light. Just like the light that pervades the surface of the sky”.

\(^{26}\) In this regard, Williams quotes Kamalāśīla’s Tibetan commentary on the Madhyamakalākāra where the author affirms that the self-revealing nature of a cognition is evident even to cowherds. To this he adds an explicit remark by Mokṣākaraūgpan (11th c. CE) who in his Tarkālaśāhā says: “the nature of self-awareness is established by perception, how can it be refuted?” (anubhava-prasiddham ca svāsāṃvedanāttram kathām apabhraṣṭāt. See (Williams 1998, p. 24). As Yao has further elaborated, “by rejecting the articulated epistemological formulations, they [i.e., Śantaraksita and Kamalāśīla] have returned to a Mahāsāṃghika position, according to which a self-cognition is more simple, fundamental and soteriologically oriented”. See (Yao 2005, p. 149).

\(^{27}\) Apart from TS 1999, Śantaraksita insists elsewhere too that “consciousness occurs as the very opposite of that the nature of which is insentience”, this amounting to saying that “self-awareness is that which makes consciousness not unconsciousness” (Yao 2005, pp. 21–22).
a self by stressing his capacity of being a knowing subject. In a broader perspective, this self is then regarded as the manifestation of an all-pervading consciousness (sanhvi), which on a theological level is equated with Śiva. The Ṣaṁśādhihāra develops this main theme through the typical pūrvaṇa/siddhiṇṭa pattern and discusses several tangential issues, but its central principles can be condensed in few points:

1. Utpaladeva examines knowledge by focussing first on a particular case: memory. If one keeps in mind the author’s purposes it is easy to see why. Memory is a cognitive event that is by nature extended over time. It is, therefore, prone to be explained through the presence of a permanent knowing self. The Buddhists take a stand against this notion and claim that recollection can actually be justified on the grounds of cognitions alone, more specifically by the traces the original perception leaves in the mental continuum of the “knower”.

In Utpaladeva’s view, conversely, memory can only be explained by accepting that an element of self-awareness (which he calls vimarsa) is already present at the moment of the original cognition (called prakāśa). The two elements, both being manifestations of a unitary consciousness, have the same nature and ultimately point to the existence of a real self.

2. In his second step these results are extended to all types of cognition. How? If one presupposes that vimarsa is a permanent feature in any instance of memory (let us call it M)—thus belonging

---

28 The Buddhists, at least as Utpaladeva portrays them in the pūrvaṇa of the Ṣaṁśādhihāra, argue for a mechanistic view of the process of memory in which sanśkāras, the latent impressions left by a past cognition, are what do the job, guaranteeing the connection between the original event and its recollection. The IPKVr on 1.2.5 summarizes this stance nicely as follows: anubhavat sanśkārāḥ sanśkāraṇaḥ ca smṛtya jīvanām tam pūrvarūpaḥsāvam anukaraṇyāt evaṇgateivaṃgayaṃ tาน anubhavat aḥbhāṣayati. “From direct perception there derives a latent impression; the memory arising from this conforms to that former perception and makes that perception—in which the object is immersed—manifest”. Here and in the following the translations of the IPK and IPKVr are taken from (Torella 2002).

29 Utpaladeva reserves the fourth subsection (āsūkā) of the Ṣaṁśādhihāra for a comprehensive discussion of the process of memory. Here he makes his case by building on the distinction between the cognition of the object that happens in the past (prakāśa) and the reflective awareness (vimarsa) that sets in later, at the moment of remembrance. These two moments are introduced to overcome the difficulty generated by the epistemological notion we are going to analyse at length below, that is, the former direct perception (as any cognition) is, by definition, self-luminous, self-confined and never the content of another: bāṣyaṃ ca ca svakāle “rthāt pūrvarūpaḥsāvam āneśan/svālaśanam gūtraṇām samāmātraināttrahākāraḥ (IPK 1.4.2); “[He who remembers] must necessarily, having a reflective awareness of the particular entity formerly made manifest, make it manifest at the actual moment of the memory, either as a single manifestation ‘jar’ or as the totality if its components”.

When the knowing subject has a reflective awareness of a previously experienced particular, it is forced to make it manifest in the present, because this is actually the proper nature of vimarsa: it is not possible in fact to have a reflective awareness of an object made manifest only in the past. This argument allows Utpaladeva to keep the original cognition well confined in the past but to explain its manifestation in the present. What ultimately bridges the gap between the two moments is the existence of the same knowing subject, which is equal to the ‘T’ or to consciousness: sa hi pūrvarūpam itipratyayopalabdhā parato ‘pi san/vismuṣa sa iti svāyota smṛtyādaśayate (IPK 1.4.1);

“The Free One, the perceiver of the object formerly perceived, continuing also to exist later, has the reflective awareness: ‘that’. That is what is called remembering”.

Nevertheless, put this way, the argument sounds circular. Memory is picked up to prove the existence of a permanent knowing subject, but its functioning is explained precisely by assuming the existence of such a subject. Further passages show how Utpaladeva refined his ideas further: naicca hi anubhavo bhūti smṛtya pūrva “rthāt prākāśo anubhāvān abham ity atmaḥsabānabhāsān (IPK 1.4.4). “In fact, in memory, the former perception is not manifested separately—like the object—since it appears as resting on the self, as the expression ‘I perceived in the past’ indicates”. The comment of the corresponding Vṛtti is a tad more explicit: smṛtya smaranyāya ‘nuhātātiaḥ yathā prākāśaḥ bhūti na tathātābhāvaḥ svadātman evanātpratigyaḥ visnuḥbhuvanayavaparavatanaḥ, yaś cācākālo “nātveṣās “rthāḥ sa evvāt (IPKVr on 1.4.4). “In memory the former perception—unlike what happens to the perceived object that is remembered—is not manifested as separate, since it is the self itself that is manifested—the object of the notion of ‘T’—whose essence is informed by this perception. And it is precisely that reality present at many different times, known as ‘T’, that is the self”.

Utpaladeva is introducing here his decisive idea: the original perception is connected to the later recollection because it is, at least partially, identical to it. One must admit that also put this way the argument remains cryptic, but one can also rely on the IPV explanation. According to it, Utpaladeva is dividing the original cognition into two different parts. First there is a content-part (arthaṁśa), that is, the part that is self-confined, always restricted to the past, and absolutely inaccessible to any subsequent cognition. Once occurred and vanished, this part is gone forever. If the original cognition were just made up of it, memory (and knowledge as well) would never occur and no explanation—no sanśkāras, no intellect, etc.—could account for it. But there is another part, which Abhinavagupta calls the ‘consciousness-part’ (svaśāntī), that is not affected by time and is perpetual; this part guarantees the continuity and, using a crucial term of the school, the dynamic unification (annasaṁdhiṇa) of cognitions: it corresponds to vimarsa and is the paramount characteristic of self and consciousness. One must be careful in noting the difference with the Buddhist position: vimarsa does not have the former cognition as its object. It is the former cognition, precisely its svātman part. See (Abhinavagupta 1935–1943, vol. 2, p. 32).
both to the original cognition $x$ and to the subsequent recollection $y$—one must concede that vimarśa is also present in a later cognition $z$ directed at $y$ (hence a second instance of memory, $M^2$) and so on, endlessly. This allows the conclusion that vimarśa is present in any cognition and is therefore the defining feature of all knowledge.\(^{30}\)

3. The third step consists in specifying that the most intimate nature of vimarśa is language.\(^{31}\)

4. Finally—and this is a plain apologetic step—even though vimarśa is language-informed, it is not a mental fabrication or a form of conceptualized knowledge as the Buddhists would be ready to point out.\(^{32}\)

Now the first two points have one thing in common: their justification is based on the assumption that a cognition is always self-revealing and never the content of another. Such an idea is really one of the most crucial arguments of the Pratyabhijña, possibly the most crucial. Its application is so pervasive and strict that one can safely regard it as a fundamental axiom in the epistemology of the school. To put it explicitly, the gist of the Śaivas’ reasoning is that if the Buddhists really want to argue for the self-reflexive nature of cognitions, they must by all means avoid the possibility that a cognition ends up being objectified by another. However, the only way to do that—and at the same time to provide a satisfactory explanation of reality—is to accept the existence of a knowing subject. Since the Buddhists do not recognise such a subject, their conception of svasanyedana is flawed.\(^{33}\)

The most explicit application of this principle comes at the very beginning of the third section (āṅlinaka) of the Jñānādhiṅkāra, where Utpaladeva discusses and rejects the Buddhist explanation of memory. Right at the outset, he makes it clear that memory can never access an original perception since, as the Vṛtti says, it “does not penetrate the former direct perception”.\(^{34}\) The original cognition is in fact absolutely “restricted to itself”.\(^{34}\) In this regard, Abhinavagupta adds that explaining memory

\(^{30}\) Utpaladeva advocates the idea that knowledge cannot exist without the backdrop provided by vimarśa: in the memory, the connection between the original perception (prakāśa) and the subsequent recollection is guaranteed by the identity of the svatma part, which implies that the svatma part is already present at the moment of prakāśa. In other words, vimarśa is inherent in any cognition, beginning with the most basic one, direct perception. If vimarśa is present in any cognition, regardless of whether its content changes, then it follows that it must be the essential nature of cognition. For the Pratyabhijña this epistemological position has obvious ontological consequences: if a cognition is of the same nature as its content, then that very content should not be different from vimarśa, or simply put, from consciousness. This opens an avenue for a strong ontological non-dualism where everything is seen as the manifestation of a unitary principle that, depending on the context, is alternatively called vimarśa, consciousness, self or Śiva.

\(^{31}\) citib pratyavamarśam paratok svarasodita/svatantryam etan mukhyam tad aśicaryam paramānubhāḥ (ĪPK 1.5.13) “Consciousness has as its essential nature reflective awareness (pratyavamarśa); it is the supreme Word (paratok) that arises freely. It is freedom in the absolute sense, the sovereignty (āśicaryam) of the supreme Self”.

\(^{32}\) adharma/pratvamarśa yah prakāśātmā viyogapūṇa/vikalpaḥ sa hā yūktā daśājāyakṛiti viṁśaṣṭiḥ (ĪPK 1.6.1). “The reflective awareness ‘I’, which is the very essence of light, is not a mental construct, although it is informed by the word. Because a vikalpa is an act of ascertainment, presenting a duality”. To fully grasp the meaning of this verse one should be acquainted with the way Buddhist philosophers formulated the problem of language meaning. Succinctly put, they claim that a linguistic expression does not posit the existence of an entity—be it an object, an action or an event—but it rather excludes all other entities that differ from the one under discussion. This is the idea at the basis of the so-called apoha theory (“theory of exclusion”), a position first maintained by Dignāga in the PS, and later expanded by Dharmakirti into a full-fledged ontological scheme meant to account for the similarity between phenomenal entities, and to negate the existence of real universals. Utpaladeva’s denial of this position is particularly subtle. He does not embark on a plain refutation of apoha, but he rather shows that the theory actually works only within his own picture. In defending the idea that vimarśa is radically different from a mental construct, he basically puts forward two main reasons. First, he concedes that it is true that vimarśa is language-informed, but he is keen on differentiating between various levels and understandings of language. Vimarśa is, actually, informed by language in its highest and subtitles form. Second, if, as the Buddhist maintains, a mental representation consists in the exclusion of what is different, then there is absolutely nothing opposed to consciousness because Utpaladeva has previously shown that nothing exists outside it. The Vṛtti on 1.6.1 is crystal clear: prakāśāsattmane bhūy anam iti parādhiṇḍiḥ sādhvābo ‘pī svabhāsabhātā pratyavamarśa na vikalpa ity ucyate, sa hi pratiṣeṣṇiṇēḥpārāśvīraś niṣcayaḥ na ca atra pratiṣeṣṇiṇēḥbhūyaḥ. “The reflective awareness concerning the self, the reflective awareness ‘I’, which constitutes the very nature of light, cannot be called vikalpa, even if it is essentially associated with a ‘discourse’, since the word that informs it is the supreme word. Indeed, the vikalpa is an ascertainment acquired through the negation of the opposite, and, as regards pure light, there is no possibility of the existence of something that is its opposite”.

\(^{33}\) See ĪPK 1.3.1 and Vṛtti.

\(^{34}\) drk/svabhāśaśtvā nāmaṃ vedā vyāprāśa drk/ānandasthā ṣāṃkṣāṣṭiṣṭvā tu tattvātvaṃ na tadgatiḥ (ĪPK 1.3.2). “A cognition is self-revealing and cannot be the object of another cognition, just as the cognition of taste is not known by that of shape. The fact that memory arises from latent impressions implies its similarity to the former perception, but not its cognition of that”.

According to Utpaladeva, metaphysical ideas are legitimate, and they are so for two main reasons: vyatirekhabhava (place of a rope). The issue at stake is to explain what sort of relationship exists between these cognitions.

Religions 2017, 8, 145

More specifically, the absence of a thing on a surface is realized only through a cognition revealing that on that surface something that should be there is missing; such a cognition is brought about by the senses that belong to a knowing subject.

The second case is more metaphysics oriented and regards the possibility of imposing unity over multiplicity. This topic—discussed in the second ahnika of the Kriyadhidhara—is of a broader significance, since it comes down to the question whether ‘metaphysical’ ideas—such as those of action, relation, time etc.—have epistemological legitimacy. The Buddhists neatly refute this possibility, by arguing that reality is made up of absolutely discrete and ever changing components. In their view, any attempt to reify this state of affairs produces conceptualized notions, vikalpa, which although of some practical use, are also inevitably inaccurate. As expected, the Saivas claim the opposite. According to Utpaladeva, metaphysical ideas are legitimate, and they are so for two main reasons: they are “permanent and useful” (sthairyopayoga), see IPK 2.2.1. Let us focus on the first aspect. Here ‘permanence’ has an epistemological connotation, somehow connected to the bhadhyabhada relationship we have discussed above. It means that the notion of, say, ‘action’ is never set aside by a later cognition but it remains valid over time. In the IPKV Abhinavagupta makes clear that there is

by means of mental traces (sanskara) is incorrect, since in the end sanskara are cognitions too and therefore they cannot be objectified. The Saivas argue that memory can be explained only by accepting the existence of a knowing subject who is able to guarantee a temporal continuity between a past perception and the subsequent recollection.

However, the sevasamvedana-argument is by no means restricted to the discussion of memory. It is sufficient here to consider two further cases. The first concerns the analysis of the so-called ‘invalidated-invalidating’ relation (bhadhyabhadhakabhatva) that takes place between two cognitions in the case of wrong judgements, when a previous false cognition is invalidated by a later, correct one.

Standard examples are those of the perception of silver instead of mother-of-pearl, or of a snake in place of a rope. The issue at stake is to explain what sort of relationship exists between these cognitions. In IPK 1.7.7 Utpaladeva considers the case in which one sees a surface and realizes that it is devoid of a certain object, a jar for instance. This is a case of anupalabdhi or ‘non-perception’. According to the Buddhists the mere perception of the absence of a jar is enough to prove that the surface is empty: a later correct perception would in fact negate the validity of the former one, just like the cognition of the mother-of-pearl wipes out that of silver. However, for the Pratyabhijna this argument is unsound: the Buddhists are actually confusing two different ways of conceiving non-existence, an absolute one (tadatmyabhatva), in which the contents of the two cognitions (the invalidated-invalidating ones) are identical (the case of silver and mother-of-pearl), and a relative one (vyatirekabhatva) in which the contents differ. The Buddhist argument according to which the mere perception of mother-of-pearl invalidates the perception of silver is valid as far the tadatmyabhatva is concerned, but it does not hold for the vyatirekabhatva. According to Utpaladeva, the non-existence of an object on a certain surface is precisely an instance of vyatirekabhatva, and therefore it cannot be accounted for on the mere basis of a subsequent correct cognition. It is evident that the Saiva is once again resorting to the idea that cognitions are self-revealing and self-confined. A surface and a hypothetical pot that may or may not be placed on it are the contents of two unrelated cognitions; these can be connected only by admitting the unifying activity of a knowing subject.

The second case is more metaphysics oriented and regards the possibility of imposing unity over multiplicity. This topic—discussed in the second ahnika of the Kriyadhidhara—is of a broader significance, since it comes down to the question whether ‘metaphysical’ ideas—such as those of action, relation, time etc.—have epistemological legitimacy. The Buddhists neatly refute this possibility, by arguing that reality is made up of absolutely discrete and ever changing components. In their view, any attempt to reify this state of affairs produces conceptualized notions, vikalpa, which although of some practical use, are also inevitably inaccurate. As expected, the Saivas claim the opposite. According to Utpaladeva, metaphysical ideas are legitimate, and they are so for two main reasons: they are “permanent and useful” (sthairyopayoga), see IPK 2.2.1. Let us focus on the first aspect. Here ‘permanence’ has an epistemological connotation, somehow connected to the bhadhyabhada relationship we have discussed above. It means that the notion of, say, ‘action’ is never set aside by a later cognition and thus it remains valid over time. In the IPKV Abhinavagupta makes clear that there is
a substantial difference between the cognition of a certain action, such as ‘Caitra is going’, and that of ‘seeing two moons’, which takes place in erroneous judgements. The latter is in fact invalidated by a subsequent perception, while that is not the case for the former. The decisive argument is again the idea that a cognition is self-contained and impossible to be objectified: the Śaivas could even go so far as accepting that the notion of action is a vikalpa (that is to say a reification of a series of instantaneous movements in space and time that are actually independent from one another) but this would not change the fact that this vikalpa is in the end a cognition and, as such, self-restricted and unable to go beyond itself like all cognitions. How then to explain the persistence over time of metaphysical ideas, whose phenomenological appearance is so hard to deny? Again, this is by accepting the existence of a conscious subject who unifies the cognitions.

I think this quick survey is enough to show how tenacious the Śaivas were in applying the axiom of self-awareness of cognitions in order to defend the legitimacy of a knowing subject. Yet it still does not explicitly clarify the reason why they argue that the Buddhists’ understanding of this notion is in the end wrong. To appreciate it, one must pay attention to the definition of self-awareness provided by Abhinavagupta in the IPV on IPK 1.3.2. The passage is meant as an explanation of Utpaladeva’s expression drk svabhāsaṅcita, “a cognition is self-revealing”, contained in the corresponding stanza:

[In the verse] the word drś means “knowledge”. This knowledge differs from what is inert, insofar as its nature consists only of illuminating itself. For what is inert must be regarded as different from light. Hence, the expression ‘a cognition is self-illuminating’ (drk svabhāsa) means that: (1) the unfailing nature of a cognition is the capacity to illuminate (prakāśamānatā); or that (2) the proper nature of a cognition consists of illuminating itself.\(^{40}\)

The crucial point is Abhinavagupta’s interpretation of the compound svabhāsa.\(^{41}\) In the first gloss, he takes ‘self-revealing’ as meaning that the own (sva) nature of a cognition consists in illuminating (abhāsa) something else, a definition that highlights the intentional nature of knowledge, which is innately capable of illuminating, i.e., revealing, a certain content. The point is further corroborated by Bhāskara Kanṭha’s commentary on the IPV where Abhinavagupta’s prakāśamānatā is glossed as bāhyasyambandhiprakāskartṛtva, loosely meaning “the capacity of being a knowing, illuminating agent in relation to external objects” (Abhinavagupta 1986, p. 126). Differently, with the second interpretation—according to which the own nature of a cognition consists in illuminating (abhāsa) only itself (sva)—Abhinavagupta is highlighting the reflexive nature of knowledge. Thus, in few words the IPV seems to reproduce the dichotomy between the two types of svasamvedana we have seen displayed in the Buddhist exegesis. The most decisive remark comes nevertheless immediately after:

Even admitting the existence of external objects, a light which is reflected on the material aspects of external things cannot be the proper nature of a cognition, because we maintain that the self-illuminating nature of a cognition is no more than the illumination of its own nature, in the form of the illumination of a different [external] thing.\(^{42}\)

---

39 tatā hi, tatādāśākālākārabhinānā tatā caitradeho ‘nekasvabhāsa ‘pi sa evāyaṃ iti ekāraṇātum aparītyajnavec nirbhāsa-te, sa eva ca ekāneśvarē pṛthivā prabhāṣante ca pāramārthikā ti, dvicandrādi tu lokaḥbhāsānām api uttarakālaṃ pramāṇa-jagatānvarṣavāpūsaḥ sāvitur sāvitur unmiśtena dvicandro nāsti ity eva vijñapatā prajñapatā svajāya. That is to say, the body of Caitra, although it assumes diversified forms according to this or that time, space and configurations, is manifested without abandoning a unified nature, expressed in terms of ‘this is him’: an action is precisely what has a unified and diversified nature and it is real because it is manifested exactly so. On the other hand, [appearances] like two moons and so on, although they are manifested as such and their certainty is in accordance with the way a correct cognition operates, they are nonetheless falsified by a later cognition having the form: ‘there are no two moons’. See IPV on 2.2.1, (Abhinavagupta 1986, vol. 2, pp. 33–34).

40 deg jñānane, tuc ca jādūt vībhiddaśa svaprakāśakaripatau, jādo hi prakāśat prthughihātā vaktavayā lokaḥ drś svabhāsaḥ abhāṣeḥ prakāśamānattā sa svaṃ rāpam ahyābhhavati, saha sa abhāṣante rāpam yāsyaḥ (IPV on IPK 1.3.2).

41 For a detailed discussion see also (Ratti 2011, pp. 112–18).

42 saty api bhiyante tachchhātrasamākṣāntam na prakāśanam jñānasya rūpaṁ bhūvīṁ arhati, paraprakāśanādīmaṇijāraṇaḥ prakāśanām eva hi svaprakāśatvaṁ jñānasya bhūyatet. (IPV on IPK 1.3.2).
Here Pratyabhijñā’s fundamental contention is finally made explicit: a cognition is able to illuminate something else only by illuminating itself. The illumination of a content is actually nothing more than the manifestation of consciousness in an external form. This means that the intentional type of svasanvedana, whereby a cognition assumes itself as a content, is hardly justifiable if one keeps only cognitions in the picture, for that would imply the objectification of cognitions themselves:

One may object that if there is self-illumination of cognitions the cognition of an earlier perception will shine in a [later] recollection. [Utpaladeva] negates this idea, since “a cognition cannot be the object of another cognition”. If a cognition shines in another then it is no longer self-illuminated. For this is precisely the hallmark of self-illumination.43

It should be clear now why the Śaivas accuse the Buddhists of having construed a contradictory picture of svasanvedana: if the Buddhists concede that knowledge is able to assume itself as a content (i.e., the intentional type of svasanvedana) then its auto-luminous and sentient nature (i.e., the reflexivity type) is automatically contradicted. For their part, the Śaivas must nonetheless explain why self-awareness has an intentional connotation as well: in the end, our common experience is replete with myriads of cognitions that apparently have other cognitions as their content. Regarding this, the Śaivas believe that the presence of an intentional element in self-awareness is absolutely legitimate, provided one accepts the presence of a subject who guarantees the continuity of cognitions, something that a Buddhist would hardly agree with. In other words, the Pratyabhijñā grants to the Buddhists the possibility of building an epistemology based on cognitions as self-luminous. However, self-awareness of cognitions must always go together with their self-contained nature and the only way to comply with both requirements is to acknowledge the role, hence the existence, of a subject.44

This also makes it clear that there is an intimate relationship between svasanvedana and the self, as Utpaladeva himself says in a reconstructed fragment of the Viśṇüti:

It has therefore been proved that being conscious of itself [on the part of cognition is pervaded by the light of the I, which is opposed to insentience—and insentience for its part, has the nature of “this”, which pervades the property of being knowable by others. Thus it is possible to deny that a cognition is knowable by other [cognition], because this property is pervaded by another that is in opposition to the pervading one.45

Here the author is giving a logical flavour to the idea we have been discussing at length. He affirms that between self-awareness of cognition and the “I” (i.e., the self) there is an invariable concomitance that if a cognition represents itself as an object. In any case, I think it is evident that the reflexive type of self-awareness is regarded as somehow primary. This is shown by the IPV’s explanation of IPV 1.3.2, in which Utpaladeva glosses his own svābhāsa with svasanvedanaiṣkaraṇa, meaning that “the own nature [of a cognition] consists only in illuminating itself”. Besides this, it is worth considering the fact that the IPV provides four explanations of svābhāsa, not only two. Differently from the IPV, Abhinavagupta—who here is explaining a division already made by Utpaladeva in the Viśṇüti—seems to stress more the reflexive side of self-awareness: annotation (īkāraṇabhaṣya svābhāsa) iti niyamaś caturdha vyākhyataḥ. Tatātā hi scintiliprayavacā prakāśa iti vyākhyātram svātmanah prakāśa iti. aprakāśānamam asya na rūpaṁ iti vyākhyātram svātmanah asya prakāśa iti. Nādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādात

---

43 nanu svābhāsa eva sat tat anuvābhaityānaṁ smaran brahešaevate. na, ity ahaṁ nānyena vedaṁ. paraṁ yaṁ dṛk bhāṣeta tarhi na sa svābhāsa, idam eva hi sva-prakāśasya laksanāṁ (IPV on IPV 1.3.2).

44 The Pratyabhijñā maintains that a knowing subject is able to objectify itself due to its absolute freedom. This allows the possibility that a cognition represents itself as an object. In any case, I think it is evident that the reflexive type of self-awareness is regarded as somehow primary. This is shown by the IPV’s explanation of IPV 1.3.2, in which Utpaladeva glosses his own svābhāsa with svasanvedanaiṣkaraṇa, meaning that “the own nature [of a cognition] consists only in illuminating itself”. Besides this, it is worth considering the fact that the IPV provides four explanations of svābhāsa, not only two. Differently from the IPV, Abhinavagupta—who here is explaining a division already made by Utpaladeva in the Viśṇüti—seems to stress more the reflexive side of self-awareness: annotation (īkāraṇabhaṣya svābhāsa) iti niyamaś caturdha vyākhyataḥ; tatātā hi scintiliprayavacā prakāśa iti vyākhyātram svātmanah prakāśa iti. aprakāśānamam asya na rūpaṁ iti vyākhyātram svātmanah asya prakāśa iti. Nādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādādात

45 siddham tattvam parasvamvidyāttattvamprakāśaṁ svātmanvādātāyāraśādhiḥprakāśaṁprakāśaṁ prakāśaṁ prakāśaṁparikāśaṁ prakāśaṁ prakāśaṁprakāśaṁprakāśaṁ prakāśaṁ prakāśaṁprakāśaṁprakāśaṁprakāśaṁ prakāśaṁ prakāśaṁprakāśaṁprakāśaṁprakāśaṁ. Torella’s translation. See also discussion of the logical argument employed by Utpaladeva in (Torella 1992, p. 337).
posed, by claiming that a cognition can be the object of something else one would incur the fallacy of attributing to self-awareness a property (i.e., insentience) that is in contradiction with the prevailing one (vyāpaka), i.e., the sentiency of the self.

We are now left with a last question to address, one that concerns the possible influence of earlier philosophies on the Pratyabhijñā’s discussion of svāsanyāvedana. Were Utpaladeva and Abhinavagupta aware of earlier interpretations of this concept? Are there plausible antecedents to their extensive application of the axiom of non-objectification of cognitions? As is well known, historical reconstructions of premodern South Asia are problematic. However, since the Śaivas’ familiarity with the Buddhist thought is well documented, their discussion of svāsanyāvedana can be explained on the basis of the debate that took place in Buddhist philosophy in the preceding centuries. Still, in the works of Utpaladeva and Abhinavagupta there are aspects of the question that are either hardly discussed in the Buddhist sources or have less relevance; in particular, Pratyabhijñā’s insistence on the purely reflexive nature of cognitions and the self-confined nature of knowledge seems to come from somewhere else. In this regard, Bhartrhari, who predates all the Buddhist thinkers we have been discussing so far, is an author worth closer examination.

4. Bhartrhari on svāsanyāvedana

4.1. The Jātisamuddeśa Section

In the monograph mentioned above, P. Williams suggests that the notion of ‘reflexive self-awareness’ may have been an innovation of the Madhyamaka-Yogācāra school, perhaps under the influence of Dharmakirti’s thought: “The idea of portraying self-awareness as the quality of consciousness understood as the reverse of insentience (bems po) may well have originated with Śantaraksita” (Williams 1998, p. 25). Actually, this can hardly be the case. Though the fact has admittedly been overlooked so far, Bhartrhari was really one of the earliest South Asian thinkers to argue explicitly for the self-luminous nature of knowledge and, consequently, to claim that a cognition cannot be objectified. Bhartrhari concentrated his most decisive statements on the nature of svāsanyāvedana in a specific part of the VP, that is at the very end of the Jātisamuddeśa, a subsection of the third kānḍa loosely dedicated to analysing competing views on the existence of universals. By drawing this chapter to a close, Bhartrhari is faced with the need to offer an alternative theory to the Buddhist ontological standpoint whereby both things and cognitions are radically different from one another. He renders such a position in VP 3.3.101, where it is claimed that if things and cognitions appear to be somewhat similar, it is not because they really are so, but is due to the force of a conceptualized notion that is devoid of real existence. The 10th c. commentator Helārāja elaborates on this by saying that according to the Buddhists a unitary cognition is impossible due to cognitions’ intrinsic singularity. The Buddhist position is further spelled out in the two following kārikās, where it is

46 VP 3.1.101: anupraśīteti yatābhābhūnā buddhāḥ pratīgyate/ artha vyāvarttarāpo ’pi tathā tatvena gṛhyate. “Just like a cognition that is distinct [from all other cognitions] is cognized as similar [to the others], similarly the object though distinct [from all other objects] is grasped as the same”. See (Bhartrhari 1963, p. 99).
47 Helārāja, the author of the Prakīrṇaprakāśa, a commentary on the third kānḍa of the VP, is an interesting figure in itself. Iyer (1969, pp. 39–40) has shown that there are serious reasons to believe that this refined thinker lived in Kashmir, roughly at the time in which the Pratyabhijñā peaked. This fact raises a number of questions regarding the possible relationship between him, Utpaladeva and Abhinavagupta. Did Helārāja know them? Was he one of Abhinavagupta’s teachers as has already been hypothesized? Was he actually responsible for the spread of Bhartrhari’s doctrines in Kashmir, or was it instead the other way round, with the decision to comment on the VP taken due to the prestige the latter work had already acquired before him? It is fairly difficult to answer these questions, especially because no quotations linking Helārāja with the Śaivas have been detected so far. Nevertheless, anyone acquainted with the literature of the Pratyabhijñā hardly fails to grasp how often Helārāja’s considerations show remarkable similarities with those of the Śaivas. For a thorough analysis of all these issues, see the recent contribution by Vincenzo Vergiani (Vergiani 2016).
48 As it will be clear below, Bhartrhari does not accept the nominalist view on universals typical of the Buddhists, but he believes that cognitions are unitary. For him any knowledge event is devoid of divisions. As Ashok Aklujkar has noticed, this thesis is not justified explicitly but it is rather inferred from the unitary nature of sentences and words, which is,
claimed that if a conceptualized notion arises, this basically depends on the impossibility of expressing through language the absolute, radical difference existing between things and events. Immediately after this, Helaraja introduces the view of those who disagree with the aforementioned position but argue for the existence of real universals. In VP 3.1.104 Bhartrhari calls them the supporters of the “connection theory” (samsargadarśana). This view is then expanded and thoroughly analysed, as if it were Bhartrhari’s siddhanta, in four crucial verses: VP 3.1.105–106 and 3.1.109–110. Now, since the entire samuddeśa abounds with alternative theories on the nature of universal, and the formulation of these kārikās being quite succinct, one may doubt whether this samsarga stance is really the one Bhartrhari is adopting. Actually, in this case there is no much room for doubt: first, this is the last view advocated in the samuddeśa. In addition, most importantly, we have a decisive remark by Helaraja who affirms in his commentary that this position is ‘our [Vaiyakaraṇa’s] stance’. Given the importance of the whole passage for establishing Bhartrhari’s view on svasamvedana, it is worth reproducing it in its entirety, together with Helaraja’s explanation:

[VP 3.1.105] “The universal resides only in the content of a cognition and is subsidiary to cognitions. A cognition is never represented by another form, differently from what happens in the case of its content”.

[Helaraja] While the content of a cognition is represented, i.e., appears, in the form of a distinct universal, this is not the case for a cognition, which is never represented in the form of a distinct universal, because it is always accompanied by self-consciousness. In fact, the distinguishing mark of the content of a cognition is that its representation takes place through another form, whereas a cognition is dependent on the content but never becomes it. Still, since a cognition is restricted by its content, we must also accept that there is an ascertainment of identity between them, for the universal which resides in the content of a cognition is not different from cognitions, because the latter are grounded on contents. Now, being unacceptable that cognitions possess differentiation by nature—for they are dependent, insofar as they are determined by something external—such a differentiation must take place on the basis of an external, unitary cause. For example, in the representation of a pot such as “this is a pot” there is an external cause; so even if there is difference between the cognition and the content it is right to say that there is a universal contained in that [cognition].

Why then does a cognition not become a content and is it not represented through another form? Bhartrhari explains:

[VP 3.1.106] “Just as a light is never illuminated by another light, similarly what has the form of a cognition cannot be apprehended by another cognition”.

Just as a lamp that illuminates a pot etc., does not require another lamp to illuminate itself, similarly a cognition illuminating a content does not require a different cognition to illuminate itself, for its self-luminosity is settled. If a cognition were illuminated, it would acquire the nature of an inert thing, for its nature of being an illuminator is what distinguishes it from an inert thing. Furthermore, if at the moment of the cognition of the content the illuminating cognition were lightless, there would be no apprehension of the object at all, because if a cognition is not sentient the content connected with such a

49 sarśupan ca sarveśam na bhadropipātalāyā/vidyante vācakah śabda nipi bheda `vadārīgac/ā. jñānaśabdādārkacārya viśeṣa ye vyavasthitah/keśam durvādārātvat jot jñāṇadārkacāryakaranam/ (VP 3.1.102–103). “There are no words able to express the difference between all [things] that are similar to one another, nor is this difference ascertained. Since it is difficult to ascertain the difference between cognitions, words and things, then [a false] notion of unity in cognitions etc. arises”.

50 In Iyer’s edition these stanzas are grouped together and numbered 3.1.103–106, see (Bhartrhari 1963, pp. 101–5).
cognition cannot be established. In addition, if the cognition is not perceived at the same
time of its content what would be the use of a cognition occurring later in time? In fact,
when a manifestation takes place, one could not have a knowledge directed at oneself
such as “this object has been manifest to me”, since at that very moment the cognition
directed at oneself would be insentient. Therefore, a cognition is self-luminous and it is not
grasped by another cognition, for the property of being a cognisor is absent in a thing that
is cognised by something else. Now since there is no representation of a cognition through
another form, the cause of the unitary nature of this cognition is the undivided universal
that resides in the content only. In addition, it is precisely because of this universal that
one grasps an identity between an apprehended representation and another cognition.
On the contrary, if the appearance of an identity between cognitions were to be explained
on the basis of a universal inhering in them, then the notion of an external universal would
be truly groundless; but in fact, the appearance of such an identity is to be explained
differently. Being the contents of cognitions different from one another, in their case a
unitary universal is justified. While, in the case of cognitions, it is correct to say that they do
not have a common feature other than themselves. There is no parallelism with the objects
because it has been proven that also this feature common to cognitions derives from the fact
the cognitions are differentiated, insofar as they are determined by their content. So there
is no place for universals in the realm of cognitions, because it has been established that
the ascertainment of an identity between cognitions depends only on the common form
present in the mental representations: so it is finally proven that cognitions have a unitary
form, are self-illuminating and do not possess universals. Although the Vaiśeṣikās too
claim that a universal resides in objects only and is subsidiary to the cognitions, they do not
hold that cognitions have a unitary form, nor that they are self-illuminating. Nevertheless,
we grammarians have another opinion. In any case, the view that is put forth here has been
acquired through a reliable means of knowledge.

Now one may further object: just as in a cognition such as “this is a pot” one ascertains the
pot, in the same way in the cognition “this is the cognition of the pot” a pot is ascertained
as well. What is then the difference here? The difference is that if a knowledge consisting of
the cognition of an object were not perceived, it would not be denoted by language either,
because linguistic denotation is preceded by perception. Moreover, a cognition is not able to
perceive itself through itself, because this would contradict its own function. However, let
us suppose that a cognition, because of its conscious nature, illuminate spontaneously the
object even if it is unknown. Let us admit that there is a difference to such an extent between
this cognition and external objects. In this case, the point is that in order to know that
cognition, another cognition is required. However, a series of cognitions is inappropriate
as well, because ordinary activity is absolutely based on a firm discrimination between
cognitions and contents of cognitions, and because another second-order knowledge is
irrelevant. With regard to this Bhartṛhari says:

[VP 3.1.109] “The cognition ‘this is the cognition of a pot’ is different from the cognition of
the pot. The cognition of the pot comes down to the external object”.

[Helārāja] “The cognition ‘this is the cognition of the pot’ is a cognition that has the form
of a pot and so forth. When it is grasped by another cognition, as when one says: “I had
this cognition”, the cognition that is grasping another—namely, that which has a cognition
as its object—has features that differ from those of the cognition of a given pot, because
it does not arise directly from the object. For only cognitions that are the content of a
further cognition derive from the object, not the others, which are [in turn] founded on
conceptions. The reason is that there is an intervention [of a cognition] between the two.
A relationship of ‘apprehender’ and ‘apprehended’ is established due to the force of a
similarity. But the cognition of a pot appears in the other [i.e., second-order] cognition
as having different properties. Hence it is not grasped [by the second-order cognition]. Now it might be objected that, due to the continuity (anusamdhana) of the element ‘pot’ the [apprehending] cognition is similar to the [apprehended] one. But then the author says that also “the cognition of the cognition of the pot comes down to the external object”, meaning that it does not come down to cognitions. Therefore, a cognition is never the support of another, for it always shines by itself. This is the meaning of the verse.

Others explain: the cognition that consists in ‘knowing the pot’ is different from the cognition of the pot whose object is the external thing: a cognition which is not engaged with an object and is confined to itself is not conscious. Since the cognition consisting in an object like a pot—which is distinct from the former one and arises from the apprehended thing—is totally subordinated to the apprehended thing and refers to the external object. For, if there is no illumination of an object the existence of a cognition will be groundless. Therefore, even if one thinks in terms of ‘cognition of cognitions’ because there is no difference between the two cognitions in terms of awareness, it is nonetheless correct to say that the content of ‘the cognition of a cognition’ is always the external object.

Others explain ‘the cognition of the cognition of a pot’ by saying that its object is not the ‘cognition of a pot’, but that it has a different nature and is devoid of form. For the consciousness-nature of a cognition is not reflected in what is imagined to be its cognition. The relation between apprehender and apprehended is based on similarity. If that were not the case, since there is no distinction in terms of awareness, there would be no rule to determine what is the perception of what. However, a cognition, whose content is an external object like a pot, conforms itself to that very object and assumes its form.

Or again Bhartrhari says: “The cognition ‘this is the cognition of the pot’ is different from the cognition of the pot. What is the difference between the two? The author says: “The cognition of the pot comes down to the external object”. Even if this cognition is formless, it nonetheless conforms itself to, determines and ascertains the object in terms of “this has such a form”. However, the cognition “this is the cognition of the pot” does not conform itself to the nature of the cognition (‘this is a pot’). In fact, by ascertaining the ‘cognition of the pot’ as a content, the cognition of the cognition of the pot can at most ascertain that the cognition of the pot is some form of knowledge; yet the conscious nature of the cognition of the pot is not reflected in the cognition of the cognition of the pot, as it happens in the case of the cognition of another person. A cognition is determined by another on the basis of a certain linguistic expression, such as “he had the cognition of a pot”, but this knowledge of another cognition is not manifested for others as it is for oneself, hence the cognition of the cognition of a pot is different from the cognition of a pot and does not determine it. Having an apprehending nature, a cognition is manifested by itself and is therefore said to be self-cognizing. It does not illuminate itself as if it were an object, and it is never the object of its own activity.

Now, one may object that an apprehended object is not different from the cognition and it is apprehended on the basis of a cognition such as “this is the knowledge of a pot”. In this way it is precisely the cognition which is cognised. To remove this doubt Bhartrhari says: [VP 3.1.110] For what has the nature of a cognition is not apprehended as having that of an object. Cognition’s own nature is not grasped separately from the object.

Bhartrhari’s refutation is valid also if one supports the theory that a cognition is devoid of objects (nirakaravada), for also in that case there is a cognition that represents another cognition in the form of a content, such as “this is the cognition of a pot”. This second-order cognition does not determine the proper nature of the first one in separation from it. Moreover, the manifestation in the form of an apprehended content is not the proper nature of a cognition; it is rather a temporary qualification, just like the colours blue etc. are for a
crystal. In addition to this, the subjective aspect of a cognition is not cognised by another cognition as distinct from the objective aspect: due to the pureness of cognition, another cognition is not admissible. Hence, due to the impossibility of having a cognition if the content is not cognised, even what is supposed to be the ‘cognition of a cognition’ depends on the content. The content exists as the representation, and is established as different from that representation, just as when one says: “this object is known”; this is also the case of a cognition like “this is the cognition of blue” since that cognition is rooted in a blue thing: a cognition is apprehended as arising from a content.

Things being so—since one cannot grasp the conscious nature of a cognition through another cognition—an analysis of cognitions in terms of universals that differ from the cognitions does not hold. On the contrary, since there is no distinction between the objective aspect of a cognition and a cognition, the cause of the comprehension of the cognition must be the unitary universal present in the object. Therefore, when there is an objective aspect of a cognition that is identical to the cognition, positing another universal is useless, because this objective aspect is grasped by another cognition precisely so i.e., on the basis of the universal present in the object. Nor is there a fallacy of mutual dependency: there is in fact a difference of activity, since the universal contained in the object produces a unitary cognition, and the unitary cognition expresses the universal in the object. This is unquestionable. If cognitions are determined as identical without the postulation of a universal, the same does not apply for cognitions, since for cognitions are indeed determined as identical on the basis of a universal, but in the way we have just described. One may object: if the cognition aspect is not regarded as different from the objective aspect, the cognition aspect cannot be established by itself. This is true: the objective aspect is always experienced in concomitance with the cognition aspect. Nevertheless, there are also objects of pleasures to be enjoyed, which follow (standard cognitions?), which are perceived as having the nature of the seat of the sense of the I, and which have qualities different from those (standard) objects of knowledge that are, on the contrary, detached from the seat of the sense of the I. On this basis, cognitions are regarded as having a nature distinguished from that of the object: cognitions such as pleasure etc., even when grasped through another cognition, they are never cognised.

This experience is established and we have dealt with it more than disturb.

So the universal is confirmed on the basis of a reliable means of knowledge, and when denoted by language it is capable of accomplishing a linguistic usage that deals with both visible and invisible things. Hence the existence of the category of universal is established”.

51 VP 3.1.105: jñeyastham eva sāmānyam jñānānām upakārakam/na jätu jñeyaavaj jñānam pararūpena rūpate/ .

[Helārāj] yathā jñeyam vyaktāksāṃsāmyarthārūpena rūpate, rūparat kriyate, nātvam jñeyam sāmicādātmasamavetena sāmyarthāraṃsāmyarthārūpena rūpate. jñeyadharmāḥ kāyaṃ yat pararūpāna rūpamam. jñānam tu [ar]ścātānam jñeyam eva na bhavati. jñeyam jñeyānāmāṁ śāyam sāmyādātyathādātmasāmyādātyathatvam ātyatra pratartābhisayatato 'py upapadāte. bāhuyāparasāvatsākādātmaḥ śāyam jñānānam svatva eva vaisādātmasāmāyopapateḥ bhār ahinnena nimittena nimittena tatra bhavam. tadātāla ghatō ghaṭa iti ghaṭākāre bāḥyam nimittanām tathā bhedā 'pi tadātāna sāmānyam iti vyaktam. kathām pūrvajñānām jñeyam na bhavati pararūpena na rūpata ity āśā: VP 3.1.106: jñeyastham eva sāmānyam jñānānām upakārakam/na jätu jñeyaavaj jñānam pararūpena rūpate/ .

[Helārāj] yathā ghaṭākāre bāḥyam nimittanām tathā bhedā 'pi tadātāna sāmānyam iti vyaktam. kathām pūrvajñānām jñeyam na bhavati pararūpena na rūpata ity āśā: VP 3.1.106: jñeyastham eva sāmānyam jñānānām upakārakam/na jätu jñeyaavaj jñānam pararūpena rūpate/ .
The starting point of Bhartrhari’s discussion is the commonsensical experience in which everyone perceives an identity between cognitions. Now, is such an identity based on a common feature, a universal that is instantiated within the various cognitions? The answer is a definite no: a common element actually exists, but it does not pertain to cognitions but rather to their contents. As Helaraja explains, the main difference between the content of a cognition (a pot, the colour blue, the action “running” etc.) and the cognition itself lies in the fact that the former is explainable in terms of universal elements identified by the cognitions themselves. However, in the case of contents, a common element is in fact identified by the cognitions themselves. Such a similarity between instances of knowledge depends on the fact that cognitions reflect or assume the universals of their contents. Such a state of affairs is always valid, since in Bhartrhari’s view the universals of their contents. Such a state of affairs is always valid, since in Bhartrhari’s view

The text is the one established by Iyer in his edition of the VP (Bhartṛhari 1963), sometimes slightly modified according to the readings proposed in Aklujkar (1970).
any cognition is always related to a content. VP 3.1.106 expands on the reason why a cognition is never objectified by another. Bhartṛhari brings in the example of light: as a source of light is never illuminated by another one, likewise a cognition is never cognised by another one. Helārāja adds further information by specifying that a cognition is always self-revealing and this is the distinguishing mark of the living. Moreover, a cognition is always perceived at the time of the cognition of its content, since otherwise one would need one of a second-order to explain the first and so forth. Then VP 3.1.109 affirms that ‘the cognition of x’ is quite a different thing from ‘the cognition of the cognition of x’. Bhartṛhari states that this difference is caused by the fact that ‘the cognition of x’ comes down to the content, thus meaning that the cognition of x is produced directly by the content, whereas this is not the case for ‘the cognition of the cognition of x’. Helārāja gives four reasons to explain the difference between these two kinds of cognitions. For the sake of clarity, let us call C₁ ‘the cognition of x’ and C₂ ‘the cognition of the cognition of x’, where x is a pot. In the first interpretation, the pot in C₁ has different characteristics from the pot in C₂. The pot in C₁ is produced directly from the content, the one in C₂ only indirectly. This means that the two are not similar and a relationship of ‘apprehender and apprehended’ cannot be established, since such a relationship requires similarity. The conclusion is that C₂ does not cognize C₁. In the second interpretation, C₂ must necessarily have a content, for a cognition without a content is unthinkable. The content is clearly the same of C₁, i.e., the pot. The conclusion is again that C₂ does not cognize C₁; it is directly cognizing the pot. In the third interpretation, C₁ cannot cognize a pot and be cognised by C₂ at the same time, for in that case the distinction between an apprehender subject and an apprehended content would vanish, and with it, any possibility of dependable knowledge. Again, the conclusion is that C₂ does not cognize C₁. Finally, in the fourth interpretation, C₂ can at the most recognise C₁ as some form of cognition, but it cannot cognise the conscious nature of C₁. It is similar to the case of someone cognising the cognition of someone else: one can certainly cognize the content of the cognition of another person, but cannot cognize it in the same way as that person. Therefore, C₂ does not cognize C₁ and the objectification of a cognition is inadmissible. Finally, VP 3.1.110 is meant to meet the last criticism of the pūrva-pāksā who seeks to identify the cognition with its content. If a cognition and its content are identified, then one is allowed to claim that cognitions are able to assume themselves as their own content. In the stanza Bhartṛhari refutes this view, by conceding that a cognition is certainly never devoid of a content but also emphasizing that between cognitions and contents there is a substantial difference. According to him, whenever we suppose that a cognition x is having another cognition y as its content, we are just cognizing the universal represented in x, which is generated by the content of y. Helārāja expands on this idea by stressing that ‘cognitions of cognitions’ are always rooted in the original object: if a cognition appears to be the content of another it is just a temporary occurrence, as it happens in the case of a crystal assuming a certain colour. At the end, Helārāja returns to the problem of the universal by restating the grammarians’ position on the issue, according to which there is no need to postulate the existence of universals of cognitions because the similarity we recognise in knowledge is adequately explained on the basis of the universals present in external objects. In Helārāja’s words, “the universal contained in the object produces a unitary cognition, and the unitary cognition expresses the universal in the object”.

The entire passage shows how Bhartṛhari’s ideas on “cognitions of cognitions” were close to those of the Pratyabhijñā. One should also consider that, although Helārāja’s commentary provides welcome additional material, the basic information is all contained in the stanzas: first, a cognition cannot be objectified by another, because the knowledge that derives from an object is radically different from the one produced by another cognition; second, there is no need to postulate a universal of cognitions because ‘pure’ cognitions have only consciousness as their common feature, and consciousness cannot be cognised by anything but itself; third, a cognition is always dependent on a content. The only crucial notion that Bhartṛhari does not mention in these stanzas—even though Helārāja does—is that
whereby only the living are self-aware of their own cognitions. Nevertheless in other kārikās of the VP the idea is clearly expressed.52

Before seeing how the Pratyabhijñā used Bhartrhari’s concepts concretely, let us consider few further passages of the VP dealing with the same problems.

4.2. Bhartrhari on svasamvedana: Further Remarks

Apart from the discussion found at the end of the jātisamuddēsa, other considerations on the nature of cognitions and self-awareness are found throughout the VP. The most substantial is possibly the one offered by three kārikās of the Sambandhasamuddēsa: 3.3.23–24 and 3.3.26. The first two restate the concept we discussed above as follows:

For on a cognition that has the nature of a doubt, which is established as instrumental to determine an object and which does not abandon its proper nature, on top of that one cannot apply a further doubt.

When a subsequent determinative cognition is applied to an original one, then the original determinative one does not retain its distinguishing feature.53

Helārāja’s remarks helps to unpack the statement of Bhartrhari:

When there is a ‘determinative cognition’—i.e., a cognition which has the form of a specific ascertainment, that is to say, whose content is an object being ascertained—then another self-restricted, determinative cognition (nirnaya) cannot be applied to the first, which is directed at establishing the object. For the own nature of a cognition lies in its dependence on an object. Hence, if one in conceiving a cognition eliminates that, one will be led away from the core nature of the cognition, precisely because that cognition would freely get the status of an object. We have in fact previously proven that ‘the cognition of a pot’ cannot be the object of another cognition, since that would imply the loss of the cognition’s defining nature, because the cognition would abandon its nature of subject (visāyatvāya) by becoming the object of another cognition (jñānāntaravisayatvā). Just as in a unitary cognitive event a cognition that is engaged with some other object cannot be itself the object of knowledge—since its activity is not directed at itself—likewise, the expressive aspect of a linguistic unit cannot be the expressed one: the expressive aspect of the word “inexpressible” does not exclude that its meaning is expressible, because that activity of the word is not in contradiction with itself.54

The novelty here is the connection, which Helārāja makes explicit, between the nature of a cognition and that of a linguistic expression, a similarity that Bhartrhari also stresses in VP 3.2.26:

A linguistic unit which is employed as expressive cannot be the expressed one.

That by which something is cognized cannot be cognized by something else in the same context.55

As for this Helārāja comments:

52 For example, VP 1.1.134.
53 VP 3.3.23: na hy sansāyānti ‘ritte śesattvāna vyavasthāte/ avyudāse svārāpasya samśaṇa ‘nyāḥ pravartate//. VP 3.3.24: yadā ca nirnayaśākātā nirnayaśākte prakrayate tadā jñānam svadharme nāvatisṭhāte//. I follow Houben’s reading of the last pāda, instead of Rau’s svadharmentatisthate. See (Houben 1995, p. 222).
54 visēṣvadharmanarāpe nirnayāntarvisayāsvāya nirnayaśākeśādvārdhanaricchedanayāpya ‘parah svaśāta nirnaya na pravartate jñānasya hy arthapratantrāntāṃ svadharmanā. iti eva jñānantarārthadhārayaḥ na bhucatāti ghaṭatjñānaṃ iti prāca eva pratipādana iti jñānantaraśākayāt visāyatvāyaḥ svadharmanārthaḥ, tad evam anāupyapratyepayādānaśvāsvagagyaparabhāvyād yathā jñānasya jñeyatvam nastasy ekaṃśaṃ samśrittvā tadā vācakaśa vācayatvāṃ nāstīty avacayetābhubhī pratipādāntavṛsthā vātmikāna eva vācayatām arthasya nisṛddhi. svātmānā pravyayāt nityāmya pratyāpyaḥ//
55 na ca vācakasāpya pravṛttavāstī vācayatā/ pratipādyam na sat tatra yenāṃyat pratipādyate//
‘Being denoted’ (abhideyatā) is a notion that excludes that of ‘being engaged in the action of denoting something else’ if applied at the same time; for a thing that is employed to express something else cannot turn back to itself. It is indeed the very nature of things that what is endowed with the capacity of the subject cannot be at the same time the locus of the capacity of the object; this means that it is contradictory, etc., to attribute to the same locus, at the same time, both independence and dependence.56

Apart from this section, there are also further passages to take into account. Consider, for instance, the following early kārikā from the first kānda (Bhartrhari 1966, p. 108) where Bhartrhari already introduces the idea that knowledge has the unique capacity of illuminating both itself and its content, as well as the notion that there is a special affinity between language and cognition:

“Just as in a cognition both the content and the cognition itself are perceived, in the same way in a linguistic expression both the meaning and the form of that very linguistic expression are manifested”.57

Later in the same chapter Bhartrhari seems to hint at the idea that it is useless to talk about cognition independently from a content;58 in the second chapter (Bhartrhari 1983, p. 169) he explicitly says that a cognition never appears in a ‘pure’ state and that is always coloured by the object.59

Further, in a passage of the Dravyasamuddeśa, in a context meant to show how non-existing entities manifest themselves as existent, Bhartrhari specifies that although a cognition cannot be posited without a content, there is nonetheless a sharp difference between the nature of an object and that of the cognition:

Just as the qualities of an object are utterly non-existent in the cognition, and that which is utterly non-identical is established as identical.

Similarly the forms of the transformations are utterly non-existent in reality, and yet that which is utterly non-identical appears as identical.60

Concerning this point, Helaraja’s commentary is even more straightforward, as it puts the question in the well-known terms of the dichotomy between what is inert (the object) and what is sentient (the cognition). Interestingly, he flavours Bhartrhari’s affirmations with arguments that come straight from Dharmakirti, perhaps with the mediation of a later commentator:

According to the Vijñānavāda view, since what is manifested is having the form of the content of a cognition actually does not exist, a quality like the colour ‘blue’ etc. is self-contained, inert and absolutely absent in a sentient cognition. Thus the author says that there is no similarity between what is sentient and what is inert on the basis of some part. With regard to this it has been affirmed: ‘If there were similarity ābetw between a cognition and its object] on the basis of one aspect, then everything would apprehend everything. But, on the other hand, if there were similarity in all aspects then a cognition would cease to be a cognition’.61

56 karaṇasamvisūnas taḍācivibhīdeśāta viruddhā, anuyāpatipādanapracṛtyāsya tadaiva pratyuṭtṝtyaśmanī svāpābhaṭava. vastuśvabhāvā ‘yam yat kārṭṛṣṭīṣtaṁ na tatu karmanekādhiśāstyaśmāna tadhavā bhavati, svātṛtyapāṛatantarāryaṇa evaśaiḥatra ciroddhātya arthaḥ.
57 VP 1.51: atmarāpaṁ yathā jñāte jñēparaṁ ca dṛṣṭaye/ardhārāpaṁ tathā śābe svāraṁ ca prakṛtaye//.
58 VP 1.89ab: jñēyaṁ na vinā jñānam vyaścathaye ‘vatsīṣṭhate. “In ordinary reality one cannot establish a cognition without a content”.
59 VP 2.426: dāraṇaṣaṭiḥ yathā satyaṁ na tatha dāraṇaṁ sthitam/vastusamṣargarūpaṇena tad arṇaṁ nirārṇaye// “The true nature of a cognition it is not as it appears; it is formless and it is ascertained in connection with an object”.
60 VP 3.2.9–10: yathā vivaśadaharmāntam jñāte ‘tyaṁtaṁ asambhavaṁ/ṛṣidhyaṁ ca ca tathā siddham atyāntam atadātmaṁ/tyaṁtaṁ cikāraṇaṁ tattva ‘tyaṁtaṁ asambhavaṁ/ṛṣidhyaṁ ca ca tathā tattvaṁ atyāntam atadātmaṁ//.
61 viṣṇuṣaṁsarvaṁ bhāvato ‘satyaṁtaṁ nīlādaṁ tattvaṁ dharmo jādo ‘jāde jñāne ‘sambhavaṁ/ṛṣidhyaṁ iti. jāṭhājāyogna na kenaicd anṛṣaṁ sāraṇyam ity dva. tatha coktaṁ: ekadeśa sāraṇyap sarvam sāya sarvaśodanam/saroṭṭamanā tu sāruṣyey jñānam ajñānathāṁ.
To conclude, the passages above show how Bhartrhari was well aware of and upheld the idea that cognitions are by nature self-reflexive; moreover, he was one of the earliest thinkers to regard svasaṃvedana as the hallmark of living entities and to claim that due to the force of its auto-luminosity a cognition can never be objectified. These positions were all-well known to the Śaivas.

4.3. Abhinavagupta’s Quotations of the VP Stanzas

The most straightforward proof that the Śaivas were aware of Bhartrhari’s discussion of svasaṃvedana is the fact that in the IPVV Abhinavagupta cites two of the stanzas of the Jātisamuddeśa we examined above, VP 3.1.106 and 109. The first is quoted precisely where one is expecting to find it, that is, in the third aṅhika of the Jñānādhiḥkāra, where Utpaladeva concentrates most of his considerations on self-awareness. More precisely, Abhinavagupta quotes VP 3.1.106 while commenting Utpaladeva’s viśruti on IPK 1.3.7. Here the author claims that ordinary reality would be inexplicable without the activity of unification of cognitions that is exclusive to the knowing subject. The self is then ultimately identified with Śiva and, by appealing to a quotation from the Bhagavadgītā, it is regarded as the source of “memory, knowledge and exclusion”. Specifically, Abhinavagupta is referring to the notion of non-objectification of knowledge to show that the way the Buddhists prove non-existence is wrong. He says:

Utpaladeva now examines the Buddhist way of establishing non-existence with the intention to show that the aforementioned idea whereby ordinary apprehension, directed at itself or at other things, is produced on the basis of ‘a distinction from what is different’ does not hold. With regard to this, it has repeatedly been proven that knowledge has a unitary, self-illuminating nature. As the venerable Bhartrhari said: “Just as a light is never illuminated by another light, in the same way what has the nature of knowledge is never made visible in another knowledge”. Therefore, on the basis of the fact that a cognition is not liable to be merged with another cognition, it might be said that if there were two cognitions, a third one should be there to know them. However, here we have the knowledge of a single cognition, hence two cognitions are not present. With regard to this, a pot is the counterexample.62

The second stanza Abhinavagupta quotes, VP 3.1.109, comes in a different section of the work, whose content is nevertheless similar to the previous one. It is in the fourth aṅhika of the Jñānādhiḥkāra, precisely in IPK 1.4.6, where Utpaladeva maintains that memory never operates on the original perception: the common phrasing ‘I had this perception in the past’ is just a linguistic analysis of the more accurate sentence: ‘this thing was perceived by me in the past’. In this regard Abhinavagupta brings in Bhartrhari right at the beginning of his discussion by saying:

One may object that when a pot is remembered, that is to say it is in the condition of an object of knowledge, then the original cognition should come together with the knowing

---

62 anyavyavacchedair grahan. avyavah. ‘pi svaparavis.ayo ya ucyate, so’pi nirvahed ity. sayena saugasiddhiprakaraṇa eva vicārayati. tatra jñānaṃ spoṣapriyāśabdiṣṭam iti upapāditaṃ asaktaṃ. yathālha taṇuḥbhavati ‘yathā jñetṛiḥ prakāśena nāyendhibhiprakāśya/viprakāśya tathā jñetṛiḥ nāyendhibhiprakāśya’. tatas ca jñāntacaryāya eva jñetṛiḥasamyayoganaṃ na bhavati yenaucayate yadi dve jñetṛiḥ bhavetva, tadviṣṇujñetṛiḥaṃ triṣṭam bhavet. idam tu ekajñetṛiḥbhavantam, tasmāt na dve jñetṛiḥ sta iti. tad atrā ghato vaidharmyadrś. tatra jñānaṃ spoṣapriyāśabdiṣṭam iti upapāditaṃ asaktaṃ. yathālha taṇuḥbhavati ‘yathā jñetṛiḥ prakāśena nāyendhibhiprakāśya/viprakāśya tathā jñetṛiḥ nāyendhibhiprakāśya’. tatas ca jñāntacaryāya eva jñetṛiḥasamyayoganaṃ na bhavati yenaucayate yadi dve jñetṛiḥ bhavetva, tadviṣṇujñetṛiḥaṃ triṣṭam bhavet. idam tu ekajñetṛiḥbhavantam, tasmāt na dve jñetṛiḥ sta iti. tad atrā ghato vaidharmyadrś. vaidharmyadrś. tatra jñānaṃ spoṣapriyāśabdiṣṭam iti upapāditaṃ asaktaṃ. yathālha taṇuḥbhavati ‘yathā jñetṛiḥ prakāśena nāyendhibhiprakāśya/viprakāśya tathā jñetṛiḥ nāyendhibhiprakāśya’. tatas ca jñāntacaryāya eva jñetṛiḥasamyayoganaṃ na bhavati yenaucayate yadi dve jñetṛiḥ bhavetva, tadviṣṇujñetṛiḥaṃ triṣṭam bhavet. idam tu ekajñetṛiḥbhavantam, tasmāt na dve jñetṛiḥ sta iti. tad atrā ghato vaidharmyadrś.
subject, but if that original cognition is remembered as an object of cognition, what else can be said? We reply. Even if we say ‘I had a perception of a pot’ it is the pot the object of the cognition. As the venerable Bhartrhari said: “The cognition ‘I have the cognition of a pot’ is different from the cognition of the pot. The cognition of the pot comes down to the object’. 63

Abhinavagupta is thus quoting Bhartrhari as an authoritative source to corroborate Pratyabhijña’s conception of svasamvedana. It is worth noting that in the quotation of VP 3.1.109 he is interpreting the ‘cognition of the cognition of the pot’ as directly perceiving the pot, a position that is similar to Helaraja’s second explanation we discussed above.

4.4. Pratyabhijña on Memory and Bhartrhari’s Liminal Cognitions

Before drawing the conclusions of this essay, we must turn our attention to a last question, perhaps more peripheral, but nevertheless suggestive of a proximity between the Pratyabhijña’s epistemology and that of Bharthhrari. The question concerns the way memory is accounted for in each. Although Bharthhrari does not delve into the problem, some of his epistemological conceptions are useful for explaining how recollection works. I am referring in particular to what Vincenzo Vergiani has recently called ‘liminal perceptions’ (see (Vergiani 2012)). Although Bharthhrari strongly argues for the presence of language in all cognitive acts—strictly speaking, in his view there is no room for pure perceptual cognitions devoid of conceptualization (nirvikalpakajñāna)—there are cases in which this basic tenet appears to be less compelling. As Vergiani has noted, the Vṛtti records an occurrence of the expression avikalpa jñāna, a phrase apparently at odds with the aforementioned principle whereby conceptualization, i.e., language, permeates all knowledge. Therefore, what is a liminal cognition? Vergiani defines it as “a primordial mental state which exists in every living creature and consists of the awareness of oneself as other than one’s surroundings, but at the same time inevitably reflects an acknowledgement of the surrounding world in its bare spatial and temporal existence” (see (Vergiani 2012, p. 525)). In other words, everyone at any one time, is struck by huge numbers of sensorial stimuli. Since these are not necessarily conceptualized at the moment in which they take place, they would seem fit for being categorized as nirvikalpa cognitions. However, actually, Bharthhrari believes that even for liminal knowledge conceptualization is always at work, albeit in a subtler form. What is of interest to our discussion is the reason Bharthhrari provides for his claim. According to him the fact that liminal cognitions too are vikalpakajñāna is proven by their responsiveness to memory. The most obvious passage that discusses this question is the Vṛtti on the rather notorious VP 1.131, where Bharthhrari states that all knowledge is imbued with language. In this connection the author comments:

As in the case of somebody’s verbal potentiality in its contracted condition, a non-conceptualized knowledge does not bring about any verbal usage whatsoever, even if produced in relation to known objects. To explain: even the cognition of somebody quickly walking, acquired by entering in contact with grass, lumps of clay and so forth, is a kind of cognitive state in which the seed of a verbal potentiality is present. In it, once manifested the expressive powers of the words—which are explicit or implicit, make grasp the object and are fixed for any object—one cognizes, that is, linguistically denotes, the manifestation of a well defined form (vyaktarūpatraṭavabhāsa), which is consistent with knowledge, which has the nature of the object, and which is obtained and concretized.

63 nanu ghnte smaryamāne vedvyadesādhiśādhiśayini anubhavo grahakaṇeva milatu, tasmīn eva tu smaryamāne vedvyākrite kīm vācyaṃ. ucyate. ghnte mama anubhavo ‘bhūd ity api kathane ghata eva vedyaḥ. yathāha lata tratābhavān ‘ghatijñānaṃ iti jñānam ghatajñānavilaksiṣāṇam! ghata ity yāj jñānam vajyopānītya tat// IPVV on IPK 1.4.6 (Abhinavagupta 1938–1943, vol. 2, p. 53).
by a cognition permeated by language and in accordance with the expressive power of the words.\textsuperscript{64}

Then he adds an apparently hasty remark that is nonetheless crucial:

When the linguistic seeds are manifested due to other reasons, [the manifestation of a well-defined form] is the cause of memory.\textsuperscript{65}

Even if Bhartrhari's discussion is as usual broad-ranging, one can safely conclude that for him the underlying feature of all knowledge is a cognitive state which is language-permeated. As in the case of the Pratyabhijña and the Buddhists, it is important to stress that also here memory works as a testing ground for the thesis. The responsiveness of liminal cognitions for recollection is a proof that all knowledge, even one that admittedly appears far from verbal conceptualization, is indeed conceptualized: the fact that at a later time one is capable of recollecting and verbalizing an object or an event that one did not consciously notice at the moment of perception is a proof that the original cognition was already potentially capable of being verbalized, since otherwise the subsequent, actual linguistic utterance would never take place. Referring again to Matilal's scheme introduced above, Bhartrhari's ideas can thus be categorized as belonging to a particular form of T\textsuperscript{4}: a cognition comes to be aware of itself only under certain circumstances, but its auto-luminous—as well as linguistic—nature is an innate, ever-present quality. However, what does this cognitive state consist in? If we are talking about a permanent feature that all cognitive states possess at any moment in time, then one is allowed to call this state 'consciousness', which is exactly what Bhartrhari does in VP 1.134.\textsuperscript{66} In the end, the fundamental idea is that consciousness comes down to be a high-order cognitive state, one that is linguistically informed and that, in turn, informs all the others. This picture had a tremendous impact on Utpaladeva and Abhinavagupta's philosophy, in particular on the development of the concept of pratyavamarśa, or reflective awareness.\textsuperscript{67}

5. Conclusions

On the basis of the discussion above we can arrive at the following conclusions:

(1) Generally speaking, as already anticipated by the work of Torella and others, Bhartrhari's presence in the Pratyabhijña literature is not incidental but absolutely functional to the aims of the school, as well as to the actual unfolding of the apologetic debate with the Buddhists.

(2) More specifically, the Śaivas' strongest argument against the views of the Buddhists on ontology, epistemology and, even more crucially, on religious and soteriological questions is a strict interpretation of the notion of svamvedana. In this regard, Bhartrhari is a documented source of inspiration, especially in relation to the notion that a cognition is always restricted to itself and is never the content of another. Whether the Pratyabhijña thinkers were acquainted with other sources (i.e., Buddhist) affirming the same principle is of course of historical importance and is a question that future research will hopefully address, but even in that case, the fact remains that when the Śaivas looked for an external authority to support their interpretation of svamvedana they quoted Bhartrhari.

---

\textsuperscript{64} yathāsa saṃśyāt sarvātmanaḥ saḥdabhiḥvānā tadā jñāyate artheshātparṇenāpy avikalpena jñānam na kriyate. tadvatāṁ svavādānā samyagajñānaḥ
dvayam paramātmanāh prabhavaminaḥ bhūtāpy evaṁ sarvātmanaḥ prabhavaminaḥ

\textsuperscript{65} sa ca nimittāntarād āvivhavatsu śrutibhājyaṁ smṛtyeta bhavati. Vṛtti on VP 1.131.

\textsuperscript{66} sajaśa saṃśārīram saṃsūrāṁ bahir antaś ca varate tattvātmani avyatikrāntanam caitanyam sarvajñātyaṁ//. "This [linguistic nature] is the very consciousness of all beings subject to transmigration, it exists within and without. In no category of beings consciousness exceeds this essential nature".

\textsuperscript{67} On this point see again (Rastogi 2009).
Finally, it is also a fact that some ideas that Bhartrhari discusses in relation to svasamvedana are clearly endorsed by later Buddhist thinkers. It is enough to mention the very notion that a cognition is necessarily self-revealing but also the characterization of knowledge as the hallmark of the living. This leads to the fascinating but also extremely complex question of the relationship between Bhartrhari and the Buddhists. As far as svasamvedana is concerned, for instance, one cannot rule out a priori the possibility that Dignaga, who knew the VP, was aware of Bhartrhari’s analysis. This probably would not change the fact that the Buddhist Pramanavadins were the first to formalize the question in accurate philosophical terms, but it would certainly give a somehow different perspective to a debate that was so central in the epistemological discourse of premodern South Asia.

Acknowledgments: This article was written thanks to the generous support of the Austrian Science Fund (FWF) and is a partial outcome of the project “Die buddhistische Lehre von der Sonderung im Sivaismus” (P 26288-G15). The main theses of this article have been discussed at the meeting of the Society of Tantric Studies in Flagstaff. Furthermore, Bhartrhari’s texts contained in this paper have been analysed in the workshop “Bhartrhari on Self-awareness of Cognitions”, which took place at the Institute for the Cultural and Intellectual History of Asia, Austrian Academy of Sciences, Vienna. I am indebted to the participants of both events, but in particular to Vincenzo Verghini with whom I organized the aforementioned workshop. Last but not least, I am grateful to Cynthia Peck-Kubacek for having improved the English of the original paper.

Conflicts of Interest: The authors declare no conflict of interest.

Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPK</td>
<td>Utpaladeva’s Īṣvarapratyabhijñākārikā</td>
</tr>
<tr>
<td>IPV</td>
<td>Abhinavagupta’s Īṣvarapratyabhijñāvivinārasini</td>
</tr>
<tr>
<td>IPVV</td>
<td>Abhinavagupta’s Īṣvarapratyabhijñāvivṛtvivinārasini</td>
</tr>
<tr>
<td>VP</td>
<td>Bhartrhari’s Vākyapadiya</td>
</tr>
<tr>
<td>PS</td>
<td>Dignaga’s Pramāṇasamuccaya</td>
</tr>
<tr>
<td>PVin</td>
<td>Dharmakirti’s Pramāṇaviniścaya</td>
</tr>
<tr>
<td>ŠV</td>
<td>Kumārila’s Slokavārttika</td>
</tr>
<tr>
<td>TS</td>
<td>Śaṅtaraksita’s Tattvasaṅgraha</td>
</tr>
</tbody>
</table>

References


Houben, Jan. 1995. The Santbandha-samuddeśa (Chapter on Relation) and Bhartrhari’s Philosophy of Language. Groeningen: Ergbert Forsten.


Torella, Raffaele. 2014. Utpaladeva’s Lost Vṛtti on the Īśvarapratyabhijñākārikā. *Journal of Indian Philosophy* 42: 115–26. [CrossRef]


© 2017 by the author. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (http://creativecommons.org/licenses/by/4.0/).