Italian syntax: A government-binding approach. By Luigi Burzio. Dordrecht: Reidel, 1986. Pp. xiii, 468. f 185.00.

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This is as comprehensive a study of Italian syntax as I've seen in modern linguistics: it deals with verb classes, cliticization, impersonal si sentences, causatives, restructuring sentences (i.e. those which allow the phenomenon commonly known as 'Clitic Climbing'), perception verb complements, and the analysis of reflexive clitics, all in great detail. It also deals with innumerable other matters, sometimes rapidly, but always intelligently—including impersonal passives, there sentences, criticisms of VP analyses which allow a variety of projections of V, reconstruction in LF, theta role assignment, and Case assignment. The data, despite the title, are drawn from English as well as Italian, with interesting sections on Piemontese and French.

The major impact of Burzio's book was actually felt in 1981, with his doctoral dissertation; the book is an extension of the earlier work. I recommend it to all scholars of Romance studies and all syntacticians, including those who have read the original. But the greatest contribution of this book, I reiterate, has already been recognized; and it is that to which I now turn.

B argues at great length for two classes of intransitive verbs: those that are lexically as well as syntactically intransitive, and those that are syntactically intransitive but lexically transitive. The latter group is called the ergatives. In particular, he argues that a verb like *arrivare* 'arrive' takes an object complement in its lexical structure, realized at D[eep] S[tructure] as a D[irect] O[bject]. Then movement applies—yielding a structure at S[urface] S[tructure] which has a filled G[rammatical] F[unction] subject slot, coindexed with a trace in the DO slot. The arguments for this analysis are copious and well fortified. I came away from this book completely convinced that recognizing a class of ergative verbs in Italian which have an object at DS, but not at SS, allows us great insight into the grammar of Italian.

B does not stop with Italian, however, nor have many of the linguists who have read his work. Many today take as a given that ergative verbs in many (all?) configurational languages involve a movement rule which takes an object and places it in GF subject position. This is where I take issue, and I will argue below that one of the foundations for the ergative hypothesis is unsound.

1. I contend, for example, that there is no evidence for movement with ergative verbs in English. To see this, let us consider the relevant data. Keyser & Roeper 1984 have gone to great lengths to distinguish ergative from middle verbs in English. They argue that 1a-b, below, is an ergative pair (where 1b has the ergative verb), while 2a-b is a middle pair (where 2b has the middle

verb):

- (1) a. The sun melted the ice.
- b. The ice melted.
- (2) a. Someone bribed the bureaucrats.
- b. Bureaucrats bribe easily.

K&R go on to argue that middle sentences, like 2b, are formed via movement in the syntax—whereas ergative sentences, like 1b, are formed via movement in the lexicon. Their arguments that ergatives must be intransitive throughout the syntactic component of the grammar are solid; e.g., ergatives feed lexical rules in ways that would be possible only if they were already intransitive in the lexicon. And ergatives behave in the syntax as though they are intransitive.

K&R's arguments that middles must be transitive in DS also seem solid at first, although later work suggests that they are not. The reader might consider criticism of them irrelevant to this review, anyway—since B, like K&R, sees ergative formation as distinct from middle formation. However, more recent work by Hale & Keyser (1986, 1987) shows that both processes are the same thing grammatically. That is, so-called middles and so-called ergatives are two subclasses of a larger group, using a single grammatical mechanism. For the purposes of this review, I will look primarily at ergatives in B's sense, and will remark on middles only briefly.

A major part of K&R's article is their arguments that ergatives must start out as transitive in the lexicon. These arguments are the weakest point of an otherwise elegant article. Of course, this is the crucial point with respect to whether B is right that languages like English involve ergative movement (whether in the syntax or the lexicon).

The immediate question, given K&R's clear conclusion that ergatives in English are syntactically intransitive at all points in the syntactic component of the grammar, is this: what is the evidence that ergatives are ever transitive? That is, if we're going to turn them into intransitives in the lexicon, why not start with them as intransitives in the lexicon in the first place? K&R give five arguments that ergatives are originally transitive in the lexicon, and undergo a movement rule in the lexicon to produce an intransitive:

- (a) The putative Ergative Rule is productive.
- (b) The suffix -er cannot attach to an ergative verb to yield the sense of a theme argument, but only of an agent argument. Therefore, -er attachment must apply in the lexicon before the Ergative Rule.
- (c) The trace of lexical movement in an ergative structure prevents lexical insertion of a cognate object.
- (d) There insertion can apply with ergative intransitives, but not other intransitives, because the NP following the ergative verb in a there sentence appears where it is generated in the lexicon.
- (e) The prefix re- can occur with ergative verbs, but not other intransitives, because it requires linking to an object NP (this requirement is satisfied for ergatives by the trace of the lexical movement).

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evidence of a productive Ergative Rule. An example would be a pair like this: 1.1. First, K&R assume that the demonstration of productivity is enough to demonstrate the existence of a rule. Thus the fact that English forms new words which exhibit ergative pairs is

(3) a. The Republicans want to Reaganize the country.

b. The country refuses to Reaganize.

However, K&R point out that many verbs do not exhibit ergative pairs:

John visualized the town.

b. *The town visualized

Keyser 1987 (who state the claim explicitly for middles-but for whom the same claim must hold to whether the speaker will use it in an ergative alternation. In this claim I am following Hale & entries. Thus I claim that the meaning of a lexical entry is quite simply the determining factor as real-life relationships of the entities that eventually get spelled out as the arguments of lexical information which is prelexical, perhaps even prelinguistic (see Hale & Keyser 1987), about the S[tructure] (as developed in Guerssel 1986) of the lexical entries. That is, the PCS represents should expect if the possibility of the ergativity alternation results from the P[rimitive] C[onceptual] ment rule is operative here. Instead, the variability by individual lexical items in 3-4 is what we for syntactic productivity, if there really is a lexical rule involved? I contend that no lexical movefor ergatives, given their analysis). bill, but not to others, the rule is not productive in the sense required of syntactic rules (cf. Chomsky new lexical entry' (390). But so long as the rule applies to only some lexical entries that fit the They conclude that 'the intransitive member of an ergative pair must be generated by rule for each 1970, Wasow 1977). Why should the criteria for lexical productivity be any looser than the criteria

theoretical grounds. Consider the verb stick, which exhibits an ergative pair 1.2. The second argument of K&R is also attackable, but this time on empirical rather than

(5) a. I stuck the note on the refrigerator.

b. The note stuck fast to the refrigerator.

generic tense interpretations. Actually they do not, as shown by Hale & Keyser 1987:18. The fact by the fact that the tense here is past rather than generic present. (K&R claim that middles require The fact that 5b is an ergative rather than a middle, in the sense of B and of K&R, is evidenced be prefixed to non-ergative intransitives; tests for ergatives that K&R set up. For example, out can be prefixed to it, whereas out cannot remains, however, that B and K&R would admit 5a-b as an ergative pair.). Stick also passes other

(6) My note will outstick yours (because I use superior glue).

Stick can occur with away, which is resisted by middles. Thus, though ex. 7 may not be beautiful

it is just as good as K&R's 38 with ergative verbs, and much better than their 37 with middles:

Stick can form compounds with first-sister adverbs, whereas a middle verb can't: (7) Hey, look! My note's still sticking away, but yours fell off an hour ago

(8) This sure is a tight-sticking note. (Cf. This note sticks tight.)

Stick can be used as a prenominal adjective, whereas a middle verb can't; again, see 8.

in 9) or an agent sense (as in 10): The crucial property of stick is that it can take -er attachment, yielding either a theme sense (as

(9) Seeds that stick are called stickers. What good little stickers these notes of yours are!

must be an ergative verb according to their criteria. The point of 9-10 is that -er attachment can In fact, K&R themselves state that sticker has a theme sense to it; but they do not note that stick (10) Okay, let's divide up the jobs. I write the notes, you stick them up. So I'm the writer and you're the sticker/sticker-upper. Right?

take place with either member of the ergative pair. Therefore, we cannot conclude that -er at-

good growers) and, at least for some speakers, shine (as in Those newly polished shoes sure are as discussed above. Other examples like stick are grow (as in These new sugar snap peas sure are would be available to lexical rules if each were the direct result of the PCS associated with stick the transitive and the intransitive senses of stick are available to -er attachment. Certainly, both tachment must follow the putative Ergative Rule. Rather, 9-10 are what we should expect if both

to that of the intransitive subject of the ergative pair, is grieve. Unlike stick, however, there is no agentive sense for griever (i.e., there is no sense corresponding to that of the transitive subject of Another example of an ergative verb that allows -er attachment, yielding a sense corresponding

(11) Mary's behavior grieves her mother

Her mother grieved.

(12) Mary's in the bathroom grieving away

Mary can outgrieve anyone-she's the queen of widows

She sure is a loud-grieving woman.

(15) Mary is a griever if there ever was one.

to the person who arrives, not to someone who causes the arrival (as in, Who's the new arriver?) verbs do not enter into an ergative pair, but exhibit only the intransitive member of the pair, e.g. being considered an active participant does not entail being an agent. Furthermore, many ergative corresponding to that of the subject of an intransitive (??This pot sure is a breaker.) Note that do not typically take an active role in whether or not they break; so breaker cannot have a sense people take a relatively active role in whether or not they grieve over something; so griever (as the activeness of a GF subject as a participator in an event, rather than with theta roles. Thus having investigated the matter fully, that the attachment of er has to do with our perception of clearly, it is not pertinent to the question of whether an Ergative Rule exists. I suggest, without the intransitive subject of the ergative pair? This is another question and an interesting one; but arrive. (These are the verbs called 'unaccusatives' by Belletti 1986, Hale & Keyser 1986, 1987.) in 15) can have a sense corresponding to that of the subject of an intransitive. But pots, for example Again, this follows from the active nature of the participation of the person who arrives We do not easily attach -er to these verbs; but if we attempt it, the only sense we get corresponds Why do most ergative verbs not allow -er attachment, yielding a sense corresponding to that of

fact that verbs like sing can have what I call cognate objects (what they call 'derivative nominals') from the putative lexical movement rule) which blocks lexical insertion of a cognate object but ergative verbs cannot, shows—they argue—that ergative verbs are followed by a trace (resulting 1.3. K&R's third argument involves the possibility of lexical insertion of an object at DS. The

(16) a. The man sang a song.

*The ship sank a sinking.

the ungrammaticality of 16b is easily explained if sink, with a theme in GF subject position, is lexical structure, then it cannot have any kind of object, whether cognate or otherwise. That is, unmarked object position in its lexical structure. Thus sing has an NP object which can be optionally But K&R themselves follow Carlson & Roeper 1980 in saying that a verb like sing has an optional filled with a cognate object. But if sink, with a theme in GF subject position, is intransitive in its

that can take non-cognate objects as well. Thus 17a is not acceptable with a cognate object, because elapse is a strictly intransitive verb; but 17b-c are all right with either a cognate object or some Note that cognate objects do not in fact occur with strictly intransitive verbs, but only with verbs

(17) a. The required span of time elapsed (*a month)

b. The man sang {a song | The National Anthem}

Ċ He dreamed (a dream / his future)

þ He smiled (a strange smile / his welcome)

e. He ran {a good run | the hell out of his shoes}.

A supporter of K&R's position might argue that elapse is an ergative verb itself. But elapse seems

many of the criteria set up by H&R for detecting ergativity. For one, it does not allow the prefix re- which occurs with so many ergative verbs: to be the most intransigent kind of intransitive that exists, and it contrasts with ergative verbs on

(18) *The required span of time re-elapsed.

elapse. And, unlike intransitives that can take cognate objects and ergatives, elapse cannot easily Ken Hale (p.c.) has pointed out that 18 is inappropriate for pragmatic reasons, regardless of grammar. But elapse cannot be transitivized via out-prefixation, whereas many ergative verbs can: *outappear with away—although Hale has suggested 19b, which doesn't sound terrible to me:

(19) a. *The month elapsed away

b. ?Months were elapsing away.

do not allow cognate objects. Thus, if the ergative sink is a strict intransitive, we have accounted together. If elapse is not a strictly intransitive verb, I am unconvinced that there are any in English for the fact that it cannot take cognate objects (as in 16b). I will, then, assume that elapse is a non-ergative infransitive verb; I conclude that strict intransitives The arguments are not conclusive, taken individually; but they are certainly suggestive when taken

Furthermore, contrary to what K&R or B would predict, we find ergative pairs where the ergative member can indeed take an object (20a-b are adapted for English from the French examples in

(20) a. The man {rang/sounded} the bell

The bell {rang/sounded}

The bell {rang/sounded} the hour of the Mass

The butcher bled the cow.

The cow bled {all her blood / her guts out}.

c. Grief aged Mary

Mary aged five years overnight

derives the ergative member of an ergative pair via movement, whether in the syntax (alla B) or in the lexicon (alla K&R). Examples like 20 are simply anomalies for B. They are totally incompatible with an analysis that

A similar anomaly for middles is found in the middle reflexive, as noted in Lakoff 1977

(21) This bread virtually cuts itself

We again see that middles, like ergatives, must be analysed without a trace in DO position

evidence against such a trace Thus 16b offers no evidence for a trace in object position of ergative verbs. And 20 offers clear

I.4. K&R's fourth argument involves there sentences. They argue that only ergative verbs, but no other intransitives, can appear in there sentences; they account for this by saying that the NP following the ergative verb is located in the surface, where it originates in the lexicon. That is, the Ergative Rule will have failed to operate in a sentence like

(22) There appeared a settlement.

an ergative with only an intransitive counterpart.) They point to the following as evidence for this intransitive member of an ergative pair cannot assign Case. (Of course, appear is an example of 22 gets its case from the GF subject position, since they follow Burzio 1981 in claiming that the With this analysis of there sentences, K&R are forced to claim that the NP following appeared in

(23) There go I.

be a non-ergative intransitive. It easily occurs in there sentences. Thus 24 is from McCawley 1981: The problems with this argument are empirical. Consider again elapse, which I argued above to

(24) There elapsed a period of several seconds.

ergativity, but which occur on McCawley's list of there sentences, include these is not an isolated example. Other intransitive verbs which do not pass K&R's re-prefix test for Of course, 24 is only as indicative as the analysis of it as a non-ergative is strong. Elapse, however,

(25) There began a new era

Breathes there a man with soul so dead ...

In these hills there cascade many great waterfalls

There comes a time when one must face the facts.

At the beginning of the Pleistocene era there came into being a new species of mammal There came to light a gross error in his calculations.

There dawned yet another morning. To every action there corresponds an equal and opposite reaction

From an asylum for the insane near Providence, Rhode Island, there recently disappeared an exceedingly singular person. (H. P. Lovecraft, The strange case of Charles Dexter

an ergative verb, but a straight intransitive. Yet we find 26a on McCawley's list of attested ex-McCawley's list that are not ergatives by K&R's criteria. K&R specifically argue that rise is not (Note, however, that B classifies begin as an ergative verb, p. 160.) There are many others on amples, and everyone I've asked finds 26b also acceptable:

(26) a. There rose a star

b. There rose a thin spiral of black smoke into the innocent air.

generated) there sentence, the NP immediately follows the verb; but in a non-ergative (i.e. transphrase: formational) there sentence, the NP will be in S-final position, typically after a locative or time there sentence, or a transformationally generated there sentence. That is, in an ergative (i.e., base-Surface position of the relevant NP allows us to distinguish whether we have a base-generated that the instances of intransitive verbs with NP movement are 'outside of the core system', 162.) situations: ergative verbs and no NP movement, or intransitive verbs and NP movement. (B argues tionally labeled as 'existential' vs. 'presentational' there. In the presentational type we have two In Chap. II, B makes a distinction between two types of there sentences-a distinction tradi-

- (27) There arose many trivial objections during the meeting(28) There walked into the bedroom a unicorn.
- B sees no NP movement in the ergative 27, but sees NP movement in the non-ergative 28

close look at McCawley's list reveals several examples of non-ergative there sentences with the arguing that all the examples in 25 have the relevant NP in S-final position. Thus one could argue relevant NP in immediate post-V position, followed by a locative or time phrase: that only ergatives allow an NP in post-V, but at the same time not S-final, position. However, a One might look at McCawley's list, then try to salvage K&R's argument by taking B's position—

There crept a band of thleves into the building. There fell a silence over the crowd.

There glowed two eyes in the shadows. Suddenly there flared a light in the distance.

There lacks organization in this company.

There reigned a wise queen in earlier times.

classical non-ergative intransitive verbs, by the K&R criteria. an intransitive sentence with that verb (creeper, glower, beginner, breather). In sum, these are away). Some of them can take the affix -er with the sense that corresponds to the GF subject of I can accept creeping away, glowing away, cascading away, breathing away, flaring away, reigning outglow, outreign, outcreep). Many of them cannot appear with the relevant use of away (although they cannot have re-prefixation. Most of them cannot have out-prefixation (although we do find fact that they exhibit none of the other properties that K&R show most ergatives to share. Thus Again, this is just a sampling. In taking the verbs of 25 and 29 to be non-ergative, I am using the

sentences like those in 29. No appeal need be made to an underlying lexical level with an object position with ergative there sentences will be accounted for in the same way as non-ergative there by analysing them as intransitives. The fact that the relevant NP can fall in immediate post-V We can see, then, that the presence of ergative verbs in there sentences can be explained simply

With this analysis, we will attribute the failure of there sentences with verbs like sing (noted by K&R and attributed to the fact that sing is not an ergative verb)—even when they have no object realized at D\$—to the fact that sing is not a verb that functions primarily to establish the existence or presentation of its GF subject in the discourse or in some location (spatial or temporal). That is, we will avail ourselves of the traditional analysis of there sentences, which recognizes a semantic class of verbs as crucial to the appropriateness of there. Sing does not belong to the requisite semantic class (nor does cry, or many other verbs.) The ergatives and many other strict intransitives do, however.

We now have the welcome result that we do not have to claim that the NP following the verb in a *there* sentence gets its Case from GF subject position. I myself find K&R's 23 ungrammatical, as do all the native speakers of English that I've asked. By contrast, 30 is perfectly grammatical:

(30) Who knows about this? Well, there's me and there's you. That's all.

No one blinks at 30 (but everyone I asked made a face at 23). Certainly, me is superior to I in 30. (Furthermore, there in 30 is clearly non-deictic—while in 23 it may well be deictic, and thus not the relevant use of there after all.) If K&R were to maintain that Case on the post-V NP comes from GF subject position in their ergative there sentences, then they'd have to have a different rule for Case assignment in be sentences with there. It is not impossible that there should be different mechanisms for Case assignment in different types of there sentences; however, it's certainly a complication that calls for justification. My analysis—in which intransitives can occur in there sentences, regardless of whether they are ergatives, and regardless of whether the relevant NP is in S-final position—calls for no such complication of Case assignment.

Case. must see an NP like this guy in DO position as a definite and not as a partitive, regardless of its explanation of the Definiteness Effect based on Case assignment—a phonological process which argument in there sentences. (There's this weird guy hanging from a tree outside; come look.) No argument must be NEW. If that argument is a list, the items on it may themselves be definite: the indefinite in 30, and thus cannot have partitive Case. Rather, the restriction on postverbal NP's in there sentences has its base in discourse, as pointed out by Rando & Napoli 1978: the postverbal clitics. But in English, so far as I can see, there is no evidence that indefiniteness is a reflex of titivity may well be a Case, e.g. in the contrast between the clitic ne and the accusative and dative may work for other languages-particularly Italian, which offers independent evidence that pardiscourse value)—can be empirically adequate. I leave open the possibility that Belletti's analysis which can be used as new information in the discourse, and which easily appear as the relevant permissible. In support of this analysis, Rando & Napoli point out morphologically definite NP's discourse. Ex. 30 is an example of a 'list' there sentence; hence the definite NP's me and you are in a there sentence is usually indefinite (the so-called Definiteness Effect): the postverbal NP in a assign partitive case to their DO. This is Belletti's explanation for the fact that the NP argument information of which items are on the list (not the items themselves) is the new information to the there sentence is indefinite because the verb assigns it partitive Case. But me and you are not Note that 30 also offers evidence against Belletti's claim, for English at least, that ergative verbs

1.5. K&R's fifth argument is that ergative verbs must have a trace in object position at the point in the lexicon where re-prefixation occurs, since re-prefixation requires linking with an object. (K&R do not distinguish between different types of re-'s; I follow them here, although such a differentiation might have led them to a more perspicuous analysis.) K&R are correct in noting that no non-ergative intransitives allow re-prefixation. However, not all ergative verbs can take re-. In 31, I give just a few examples, with sentences in parenthesses which K&R would take as either suggestive or indicative of the ergativity of each verb (some of the sentences are K&R's, some are McCawley's, and some are mine):

(31) *respill (I spilled the milk. / The milk spilled.)

*rearrive (There arrived a wizard at the door. / The guests are arriving away.)
*redrop (We dropped the leaves. / The leaves are dropping away like flies.)

*re-ensue (There ensued a skirmish between the police and the demonstrators.)

Likewise, not all transitive verbs can occur with re-:

(32) *I rebribed the politician.
*No one reknows anything.

*Mary reburned her hand, can you believe it?

Again, 32 is just a small sampling.

Certainly, the fact that non-ergative intransitives cannot take re- is indicative of something; but of what? The part of K&R's argument that calls for justification is the claim that re- requires linking to an object. Since re- has other requirements on its appearance, as 31-32 show, perhaps these other requirements—once properly understood—will naturally explain why non-ergative intransitives cannot occur with re-. I leave the question open, noting that it cannot be answered without a complete investigation of the requirements on the appearance of re-.

2. I conclude that ergative verbs in English are intransitive in both the lexicon and the syntax. They definitely act together as a class for certain kinds of rules, but they always behave as intransitive verbs. There is no evidence whatsoever that they are transitive at any point in the lexicon or syntax. With this analysis we can preserve some very important principles that K&R were forced to abandon

First, and to my mind foremost, we can maintain the principle that syntactic structures must be established by syntactic arguments. Thus the thematic similarities between ergative pairs must be captured, not by a movement rule in the lexicon that leaves a trace (and hence affects syntactic structure), but rather by an investigation of PCS (cf. Guerssel).

Second, we can maintain the claim of Roeper 1984 that the Projection Principle of GB, first stated in Chomsky 1981, holds for both the lexicon and the syntax: The relevant point here is that no rules of the lexicon or syntax can change thematic relations. But the putative Ergative Rule, since it required the deletion of the Agent argument slot, would have been a violation of the Projection Principle. (See Hale & Keyser 1986, however, who argue that implicit agents need not be present at any grammatical level.) K&R are forced to suggest that only lexical rules that 'have specific affixes' obey the Projection Principle. Instead, if ergatives are simply intransitive at all points in the grammar, the Projection Principle can hold in the lexicon without restrictions, as well as in the syntax.

Third, we can maintain a clean distinction between the PF component and the Lexicon, where K&R were forced to do some messy mixing. K&R claim that middle verbs do not allow movement to form compounds as in 33a; but ergatives do, as in 33b:

(33) a. bribe [NP] fast → *fast-bribing
 b. sink [t_i] fast → fast-sinking

K&R claim that the subcategorization frame of middle verbs, since it calls for an NP in object position, is responsible for the failure of compound formation with an adverbial right sister. However, the putative lexical trace in ergatives does not block this compound formation, because the lexical trace gets no Case. But surely word formation is in the lexicon and the syntax only (see Baker 1985), while Case assignment is in the P[honological] F[orm]. Therefore, lexical rules should not be sensitive to the Case properties of the items involved. However, if ergatives are intransitive at all points in the grammar, then 33b is no problem: no trace is present to block compound formation, regardless of Case assignment.

Also, as Ken Hale (p.c.) has pointed out, K&R's claim is not true for middles. Thus he and oth accept:

(34) smooth-cutting bread

This offers evidence, of course, for the claims that middles are, after all, indistinct from ergatives grammatically (as in Hale & Keyser 1987), and that middles do not involve grammatical movement.

With an intransitive analysis of ergatives, we can limit the movement rules of the lexicon to word-formation rules, as in compound formation. These rules apply to words rather than to phrases (see Aronoff 1976). Rules like the putative

are intransitive at all points of the grammar in English, but also that it is theorule moves a phrase rather than a word. I conclude not only that ergative verbs retically unsound to analyse them as transitive at the lexical level Ergative Rule should be disallowed on theoretical grounds, then, since such a

wrong. I believe the problem lies in what he proposes as a lexical principle (p. not found in English, in contrast to Italian. Thus we need to see where B went involves movement, should hold for all languages. But Ergative movement is We can now return to B's claim (28) that his ergative analysis, which

$$(35) - \theta_s \rightarrow - A$$

slot, then it will not assign Accusative Case to its object. This lexical rule is a cornerstone for B's work. Let us see how. This means that, if a given verb does not assign a theta role to its GF subject

in Italian ergative sentences, and it is a well supported explanation Filter. This is the explanation for the obligatory nature of movement both in passive sentences and to a position where it will receive Case; otherwise, the sentence will be ruled out by the Case must have Case. Therefore, if an NP is in a position where it will not receive Case, it must move 3.1. To begin, we know from well-established principles that all NP's with a phonetic matrix

is transitive and thus assigns accusative Case to its object However, as B notes, many (most?) ergative verbs come in pairs, where one member of the pair

(36) a. L'artiglieria affondò due navi. 'The artillery sank two ships.

b. Due navi affondarono [t]. 'Two ships sank.

If affondare 'to sink' can assign Case to its object in 36a, why can't it assign Case to its object in 36b, and take some sort of dummy subject, with a result like 37?

(37) *DUMMY affondò due navi.

The reading of 37 that is ungrammatical is that in which the ships sank, but no sense of an agent or instrument of that sinking is expressed. (Of course, 37 is good with the irrelevant reading 'S/he sank two ships."

is, no theta role is assigned to the GF subject in the DS in 38; hence, by virtue of 35, the object will not receive Case; It is because of the failure of sentences like 37 that B proposed the lexical principle of 35. That

] affondare [due navi]

But if the object in 38 does not receive Case, then it must either move, to yield 36b-or else the sentence fails, as in 37

as a principle of grammar-not in Italian, English, or any other language of the grammar. However, I suggest that, though 35 often matches the data, it should not be admitted a lexical principle, but he is careful to point out that it does not follow from any other principles 3.2. B himself seems uncomfortable with the lack of independent motivation for 35. He calls it

One may think at first that 35 is indeed a principle of English. With such a principle, we car

explain data like the following

- John proved the problem to be unsolvable
- The problem proved [t] to be unsolvable.
- (41) *II proved the problem to be unsolvable

That is, 41 seems to be ruled out by the lexical principle of 35. subject, the NP the problem will not receive Case: the GF subject position is not theta-marked Here 39-40 is an ergative pair. Following B, ex. 41 is bad because, while English allows a dummy

fact that 42 is good by saying that the NP following the ergative verb receives (nominative) Case of inconsistency for the work by B-and of K&R, for that matter. That is, they account for the This explanation of 41, which involves the crucial use of the lexical principle, presents problems

from the GF subject position:

(42) There arrived three new guests at John's party.

GF subject position when that position is filled with the dummy there, then we'd expect that the no explanation, after all, for the failure of 41. same mechanism (whatever it is) would also allow the problem in 41 to get Case. Thus we have But if an NP in immediate post-V position in an ergative sentence like 42 can get Case from the

counterpart to 41 would be good. It isn't: and cannot apply with the dummy it of 41. But if that were true, we'd expect that the there the object in 42 cannot operate in 41 because this mechanism is somehow limited to there sentences, One might object that the mechanism which allows Case to pass from GF subject position to

(43) *There proved the problem to be unsolvable.

bad, B's explanation for the failure of 41 is called into question in B's and K&R's systems, not because I believe (which I don't) that this verb should occur with class not limited to ergatives at all, as we saw in 25 and 29). In contrast, with B's and K&R's traditional analysis of there sentences which appeals to a semantic class of appropriate verbs (a verb prove does not belong to the semantic class which makes there appropriate. But it is the more One might also object to my claim that we'd expect 43 to be good, by counterclaiming that the there. With B's analysis of there sentences, we expect 43 to be good. Since 43 and 41 are both has an immediate post-V NP. That is, I put forth 43 because it is evidence of internal inconsistency approach, the very fact that prove is ergative should make it a candidate for a there sentence which

cusative over a nominative pronoun. I repeat the relevant example (30): Who knows about this? exist in which a pronoun in immediate post-V position sounds good, but these few favor an acpost-V position in a there sentence gets Case by way of the GF subject position. Few there sentences Well, there's me and there's you. That's all. Furthermore, as seen above, there are other problems with claiming that the NP in immediate

44, where appear is an ergative verb according to B (and K&R): pretation. It is difficult to find 'list' there sentences which involve verbs other than be; however, some can be found. Everyone I have asked prefers the accusative to the nominative pronoun in mentioned above. The one place we readily find definites in there sentences is with a 'list' inter-The scarcity of pronouns in there sentences results, of course, from the Definiteness Effect

(44) —What happened next?

—Suddenly there appeared a little boy, a bigger boy, and me!*I.

I conclude that the NP following the ergative verb is getting accusative case from the ergative verb. Thus the lexical principle of 35 is falsified by sentences like 44.

3.3. Another problem for 35 is found in this French construction:

(45) Il arrive trois femmes 'There arrive three women.'

transitive sentence. B argues that, in this construction, we again find only ergative verbs: thus the In 45 we have a dummy subject, il, a 3sg. verb agreeing with that dummy subject, and an NP in post-V position receives Case from the GF subject position (as K&R argue for the relevant NP in (and I apologize to Burzio if it's there); but I presume that B would argue that the NP in immediate and looking for specific mention of the Case question for this construction, I am unable to find it NP in immediate post-V position has failed to undergo ergative movement. Going back to B's book immediate post-V position-which would be in GF subject position if this were an ordinary in-

can conjoin, as on a list)—and such pronouns in French are not audibly distinguishable for Case. on such a list were nominative or accusative, since they would be non-clitics (since only non-clitics interpretation. But even with the list interpretation, we could not determine whether the pronouns like the there construction of English, exhibits the Definiteness Effect. Thus pronouns, being definite, could not occur in immediate post-V position in such a sentence unless we had the list whether it is nominative (as I assume B would claim) or accusative-because this construction, It is, unfortunately, impossible to determine, by looking only at the NP in post-V position in 45

analysis of this French construction, be evidence that the NP in immediate post-V position receives Other data, however, are problematic for B's analysis—and might, depending on the proper

accusative Case. Consider

- **4**6 Il sera arrêté beaucoup de criminels
- *Il le sera beaucoup de criminels

'There will be {arrested/*it} a lot of criminals.'

in 47, These sentences are from Kayne (1975:299, fn.) In 46, we see what looks like a passive sentence. French the passive participle typically CAN correspond to the pro-form le: , we see that the passive participle of 46 cannot correspond to the pro-form le. However, in

- (48) Jean sera arrêtê
- <u>\$</u> Jean le sera

'Jean will be {arrested/it}.'

auxiliary (which is part of the VP) can co-occur with it (as we see above in 49), and since other appears. However, this analysis will not work. Le cannot be analysed as a pro-VP, since the that le corresponds to a whole VP; therefore 47 is bad because the NP beaucoup de criminels We need to explain why the passive participle in 46 cannot correspond to le. One might try arguing elements inside the VP can co-occur with it:

- (50) Jean sera arrêté par les gendarmes.
- (51) Jean le sera par les gendarmes.

'Jean will be {arrested/it} by the police.

dubs it; it can correspond to a variety of predicates, including AP's and NP's as well as passive In 51 we see that le can co-occur with the passive par 'by' phrase. Le is a pro-predicate, as Kayne participles. However, it cannot correspond to past participles:

- (52) J'ai vu Marie
- (53)*Je l'ai Marie.

'I have {seen/*it} Marie.'

even when we try to let le correspond to an AP: with nominative NP's (like Jean in 51) and with PP's (like par les gendarmes in 51). This is true In general, the pro-predicate le never co-occurs with an accusative NP, although it can co-occur

- (54) Jean est fou. 'Jean is crazy.' 'Jean is it.' Jean l'est.
- (55) Je considère Jean fou. 'I consider Jean crazy.' 'I consider him it.' *Je le considère Jean

accusative clitic (the accusative clitic here is le, homophonous with the pro-predicate clitic le): I am assuming here an analysis for 55 in which consider has two right sisters, the NP and the AP Williams 1980 for justification). The NP Jean is accusative, and it can correspond to an

(56) Je le considère fou 'I consider him crazy.'

never co-occurs with accusative NP's. But the pro-predicate le cannot correspond to an AP in 55. We see that the pro-predicate le simply

otherwise unwarranted complications of the explanation of 47. restriction just stated. In contrast, an analysis of 46 that takes this NP to be nominative calls for If the NP beaucoup de criminels in 46 is accusative, then the failure of 47 is explained by the

them (143). One is that non-ergative verbs without an object can occur in this construction: There are other problems with B's analysis of this French construction, and he himself notes

(57) Il mange beaucoup de linguistes dans ce restaurant 'A lot of linguists eat in this res taurant.' (Grimshaw 1980)

manger in 57 the ability to assign accusative Case? Manger 'to eat', being a non-ergative, should be barred from this construction. Are we to deny

Another problem is that transitive verbs with an object present can occur in this construction (58) Il prend corps dans ce pays une grande espérance 'There is taking shape in this country a great hope.' (Kayne 1979)

I see no alternative to allowing prend to assign accusative Case to corps in 58. Thus the il con struction of French discussed here is another counter-example to B's lexical principle of 35

> in 60 with an idiomatic reading in some structure outside the idiom. Thus, for many people, the idiom in 59 is analysable, as seen analysability is whether such an NP can be metaphorically extended to participate grammatically in particular, an NP that is part of an unanalysable idiom does not receive a theta role. A test for is part of an idiom does not receive a theta role. I argue that Chomsky's claim must be refined that involve GF subjects which do not receive a theta role. Chomsky 1981 claims that an NP which 3.4. A different type of counter-example to the lexical principle is offered by transitive idiom:

- The shit hit the fan
- 8 The shit hit the fan and fouled up my day.

idioms which involved NP's in GF subject position), we'd be led to the regrettable conclusion that only a literal reading. For such speakers, the shit in 59 does not get a theta role. If the lexical can do this; some speakers reject any playing around with extensions, and accordingly assign 66 can extend the idiom, getting sentences like 60 with the idiomatic reading. But not all speakers With the idiomatic reading in 60, we have extended the metaphor of the idiom: coördination of the VP's is possible. Thus the NP the shit in 59 does receive a theta role for those speakers who But then 59 would have a very different kind of Case structure (and I can't imagine what) from the fan in 59 is not accusative in Case for those speakers who reject 60 on the idiomatic reading. principle in 35 were part of the grammar of English (or of any other language that had unanalysable

(61) The book hit the fan.

is false, however. The idiom in 62 is unanalysable, but it is clearly transitive: A proponent of B's lexical principle might object to the above discussion, claiming that the speakers who don't get an idiomatic reading for 60 are aberrant: i.e., that all speakers should get be intransitive: the GF subject will not be theta-marked, no NP can call for accusative Case. This an idiomatic reading for 60. Such a proponent might predict that unanalysable idioms must always

(62) Little pitchers have big ears.

properties of the relevant verb. Thus we must see the lack of theta-marking on a GF subject as divorced from Case-assigning

are independent mechanisms which should not be linked in any way. (See also Davis 1986, principle seems theoretically unsound in any case, because theta assignment and Case assignment shows that making theta assignment dependent on Case creates several serious problems.) It is necessary, then, to reject the lexical principle in 35 on empirical grounds. But this lexical

without carefully considering the reverberations of those analyses, and without other languages to English (or whatever other languages we are looking at), But now, perhaps, we are too ready to extend analyses of constructions in structions to other languages. We seem to have finally learned not to do that when many linguists thoughtlessly extended syntactic analyses of English conseems we are back to an old problem, but in a new form. There was a time taken as applying automatically to the analysis of verbs in other languages. It at any point in their lexical or syntactic analysis. Thus B's work should not be ever, it is clear that ergative verbs in at least some languages (such as English) strong syntactic motivation. form a semantic rather than syntactic class; in particular, they are not transitive has successfully argued for a syntactic class of ergative verbs in Italian. How-4. B has written an encyclopedic and insightful book on Italian syntax, and

goal of finding general principles that will hold for language after language. Unfortunately, B's lexical principle in 35 does not hold even for Italian. Achas done on Italian—his arguments are clear and copious—and I applaud the urge all syntacticians to follow B's example with respect to the work he

cordingly, Burzio's analysis of ergatives should not be extended to other laninstead be considered an important step in the proper analysis of Italian guages without clear grammatical motivation in those languages, but should

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