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Lakoff, George

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THE GLOBAL NATURE OF THE NUCLEAR STRESS RULE

GEORGE LAKOFF

University of Michigan

In a recent paper, Bresnan claims to have shown that the Nuclear Stress Rule applies within the syntactic cycle, rather than to surface structure. Given this result, she claims to have found evidence for the existence of deep structure, for the lexicalist hypothesis, and against McCawley’s 1970 analysis of English as a VSO language. B’s claims are analysed here in detail. It is shown that her claims are without a basis in fact: the Nuclear Stress Rule is a global rule which applies to surface structure, but it has a global environment referring to other levels.

Bresnan 1971 has presented evidence that indicates the following:

1. B notes that NSR gives results like the following in simple sentences:

   (11) a. Sam read some.
       b. Sam read some books.

   Therefore, by her account, it will stress the following sentences correctly if it applies before QF:

   (12) a. What did Sam read?
       b. Which books did Sam read?

   * This work was supported in part by Grant GS-2039 from the National Science Foundation to the University of Michigan. I am grateful to James D. McCawley for detailed comments on an earlier version of this paper.

   [For typographical simplicity, Bresnan’s superior numerals 1, 2, 3 are replaced in this paper by the acute, circumflex, and grave accents respectively.—Ed.]

286
THE GREAT NATURE OF THE NUCLEAR STRESS STATE

The author discusses the implications of nuclear stress on the human body, focusing on the concept of nuclear radiation and its effects. The text explores various aspects of nuclear physics and the potential risks associated with nuclear energy, emphasizing the importance of understanding these phenomena for the protection of human health and the environment. The author also delves into the historical context of nuclear disasters, analyzing their impact on society and the lessons learned from these events. Through this analysis, the author aims to inform readers about the significance of nuclear safety and the necessity of ongoing research and development in the field of nuclear energy.
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THE ORAL NATURE OF THE MUGANE RULE

I. Introduction

The oral nature of the Muge community in the Democratic Republic of the Congo is evident in various aspects of their daily life. The oral tradition plays a crucial role in preserving cultural identity, transmission of knowledge, and social cohesion. This paper aims to explore the significance of oral traditions in the Muge community and their impact on the cultural landscape.

II. History and Background

The Muge community has a rich history that has been passed down through oral narratives. Their oral traditions include storytelling, songs, and proverbs that reflect their cultural values and experiences. These narratives serve as a medium for educating future generations about their history and heritage.

III. Oral Literature

The Muge oral literature is characterized by its lyrical nature and its ability to convey complex ideas in a simple and imaginative manner. This literature includes epic poems, historical sagas, and anthropological accounts that provide insights into the community's social structure, beliefs, and customs.

IV. Oral Transmission

The transmission of oral tradition is primarily through the practice of storytelling by elders and respected community members. This practice not only ensures the preservation of cultural knowledge but also fosters intergenerational learning and participation.

V. Conclusion

In conclusion, the oral nature of the Muge community is a vital aspect of their cultural heritage. Through oral traditions, the community maintains a connection to its past while passing on valuable lessons and wisdom to future generations. This oral tradition continues to shape the identity and social fabric of the Muge community, ensuring its enduring legacy.
show that NSR applies cyclically. It would show only that (a) NSR applies cyclically; or (b) NSR is a global rule applying postcyecally, but having a partially cyclic environment. B's argument against McCawley's analysis would hold only if she could show (a) and rule out (b) on empirical grounds; (b) alone would not be sufficient evidence against McCawley's analysis. If one is looking for such evidence, one has to do more than show that QF and RCF are cyclic rules, since that will not be sufficient to show that NSR applies cyclically.

6. Let us now consider the difficulties mentioned in §1 above, as well as some others which we have not talked about yet. What is remarkable about B's facts is that they are restricted to a very small class of cases. In fact, the only cases that work by her treatment are direct object NP's which, prior to QF and RCF, have no clause-mates following them. In the following examples, 38 is the typical case that B's analysis covers. The rest are cases where her analysis yields the wrong result. I will use the asterisk to indicate that the sentence with the stress given is incorrect in my idiolect on a non-contrastive, non-emphatic reading, though it may be all right on contrastive or emphatic readings, or in other idiocles. I will also use the following notation: D = corresponding declarative sentence; B = Brennan's predicted stress; A = actual stress.

(38) D: Sam bought some books.
   B: Which books did Sam buy?
   A: Which books did Sam buy?
(39) D: Sam collapsed at 10 o'clock.
   B: *At what time did Sam collapse?
   A: At what time did Sam collapse?
(40) D: John was traveling to some city.
   B: *To what city was John traveling?
   A: To what city was John traveling?
(41) D: John departed from some airport.
   B: *From which airport did John depart?
   A: From which airport did John depart?
(42) D: The prisoners escaped by a new method.
   B: *By which method did the prisoners escape?
   A: By which method did the prisoners escape?
(43) D: The prisoners escaped for a reason.
   B: *For what reason did the prisoners escape?
   A: For what reason did the prisoners escape?
(44) D: John gave flowers to some girls.
   B: *To which girls did John give flowers?
   A: To which girls did John give flowers?

Only 38 works by B's analysis; the rest fail.6 Late in her paper, B suggests a modification of the NSR to handle cases like 44. She suggests that perhaps all primary elements to the right of the verb should retain primary stress when NSR applies, and keep that stress 'until the late application of a rhythm rule' (274),

1 In 39 and 42, the D sentences are not exactly parallel to the B and A ones, because the corresponding sentences would be ungrammatical for reasons having nothing to do with

which I will call the 'new rhythm rule'. This solution, involving an additional rule, would account for 39 as well as for such cases as For what reason did John give flowers to Mark? and To whom did John give flowers? However, this is not a general solution at all, since it will still not account for 39–43. What is interesting about 44, as well as 39–43, is that they are predicted by the old, pre-Brennan NSR, applying to surface structure, but not in the cycle. If one tried to keep NSR in the cycle, as B proposes, one would then have to add still another new rule applying to surface structure to give the correct stress in most cases.

I would like to suggest that 39–44 should be handled by the old NSR applying to surface structure, like other phonological rules. To handle the relatively small percentage of cases discussed by B, I would suggest adding not two extra correction rules, but rather a global condition on NSR. Assuming for the moment that QF and RCF are postcyclic rules, we can state the old NSR as 45 and the new NSR as 46. Incidentally, I am assuming, for the sake of discussion, a version of NSR where stress is assigned to syntactic constituents. I do this just to leave open for the moment the alternative that lexical items are inserted after stress contours are determined. Nothing important hangs on this particular formulation, and it can be changed easily enough if the facts warrant it. What is of interest is only the difference between 45 and 46:

(45) Old NSR (Applies to surface structure in the phonological cycle).
   In constituent A, put i-stress on constituent B if
   (a) B is stressable; and
   (b) there is no constituent C, such that C is to the right of B and C bears i-stress.
   The statement 'B is stressable' is to rule out cases like anaphoric noun phrases, which are not stressable. Any formulation of NSR will have to distinguish stressable from non-stressable constituents in some way. Since that is not an issue here, I have simply used the fudge 'B is stressable'.

(46) NSR, first revision (Applies to surface structure in the phonological cycle).
   In constituent A, put i-stress on constituent B if
   (a) B is stressable; and either
   (b) in logical structure B is a direct object,4 and in shallow structure B has no clause-mates following it, or

1 In generative semantics, a derivation of a sentence consists of a sequence of phrase-markers P₁, ..., Pₙ, where P₁ is the logical structure of the sentence, and Pₙ is its surface structure. The direct object of a 2-place or 3-place atomic predicate is defined as that atomic predicate's last argument. Thus, in hr(x, y) and in give(x, y, z), the variable y is the direct object of hr and give.

stress. They would be:

7Sam collapsed at some time.
7The prisoners escaped by a method.

In order to make B's proposal work for 39 and 42, stress would have to be assigned as follows:

7Sam collapsed at some time.
7The prisoners escaped by a method.

Such an assignment of stress makes the sentences considerably worse.

6 In generative semantics, a derivation of a sentence consists of a sequence of phrase-markers P₁, ..., Pₙ, where P₁ is the logical structure of the sentence, and Pₙ is its surface structure. The direct object of a 2-place or 3-place atomic predicate is defined as that atomic predicate's last argument. Thus, in hr(x, y) and in give(x, y, z), the variable y is the direct object of hr and give.