Tobias Scheer University of Nice, CNRS 6039 scheer@unice.fr

Markéta Ziková University of Brno 9336@mail.muni.cz

OCP 4, Rhodes 18-21 January 2007 this poster and many of the references quoted at www.unice.fr/dsl/tobias.htm

(Slavic) vowel-zero alternations and phase theory

Havlík vs. Lower





- d. and they needed "reduction", i.e. to cut out empty VC units from the syllabic string. Reduction occurred only with vowel-zero alternations of the Lower type, nowhere else in the grammar.
- e. reduction is not needed in out analysis because unlike Gussmann & Kaye, we make a difference between floating and stable vowels: all suffix-initial vowels float (in Czech).



e k

CV

- e k

e k

(12) conclusion

conclusion

d o m

a. a prediction is made: since the existence of a phase supposes concatenation, vowel-zero alternations within morphemes must always follow Havlík. It is not so easy to find languages with more than one alternation site within a single morpheme, but all cases that we are aware of work: French (e.g. devenir), Moroccan Arabic (e.g. køtib).

d o m

phase boundary

fair question: b.

why is it that only suffixes with alternating vowels are cyclic (in Slavic)? Why should a phonological property determine the cyclic behaviour of its host?

- floating vowels rather than Reduction. C.
- interpretation-driven phase theory: d.

C V C

d o m

V

- are there really any interpretation-independent phases?
- node-driven phase theory is blind to interpretation and faces serious trouble.

and Lower systems.

- c. yer-initial suffixes may or may not be cyclic
 - Havlík: they are not = sit in the same phase as the preceding morpheme
 - Lower: they are = do not sit in the same phase as the preceding morpheme
- d. suffixes with a stable vowel are always non-cyclic, i.e. sit in the same phase as the preceding morpheme.
- e. fair question:

8

why is it that only suffixes with alternating vowels can be cyclic? Why should a phonological property determine the cyclic behaviour of its host?

==> phases are phonology-driven, cf. below.

(11) Phase theory

- a. phase-triggering as a property of affixes (or affix-classes) is an idea first put forth by Halle & Vergnaud (1987).
- hence phases are phonology-driven: there is one when we observe its phonological effects.
- ideally, the phonological traces of a phase coincide with C. morphological and/or syntactic properties of affixes. This is the original Lexical Phonology generalisation called affix ordering.
- d. a completely different perspective is "node-driven phase": Marvin (2002) says that phases are triggered at every xP. Piggott (2006), Piggott & Newell (ms) also follow this track: he distinguishes strong (DP, CP) and weak (xP) phases.
- e. node-driven phase is certainly a desirable thing to have, but it appears to fall foul of the most basic and best known generalisations regarding English class 1 – class 2 morphology: origin-ál-ity has two suffix xPs, but not a single phase is triggered - otherwise stress would not be penultimate (cf. parén-tal vs. párent-hood).
- pejs-ek vs. ps-ík "dog dim (both)"

if alternating vowels sit in a phase of their own in Lower systems, this example shows that there are phases which owe nothing to morpho-syntax at all: in absence of contrasting behaviour, -ek and -ik realize the same pieces of the morphosyntactic structure. The only difference is phonological: the initial vowel of -ek, but not of -ík, alternates with zero. phase theory is still at an embryotic level of development. One thing that needs to be sorted out, for instance, is the question whether there is any need for phases without traces in the interpretative modules at all.

Gussmann, Edmund & Jonathan Kaye 1993. Polish notes from a Dubrovnik Café: I. The yers. SOAS Working Papers in Linguistics and Phonetics **3**, 427-462.

Halle, Morris & Jean-Roger Vergnaud 1987. An Essay on Stress. Cambridge, Mass.: MIT Press. Marvin, Tatjana 2002. Topics in the Stress and Syntax of Words. Ph.D dissertation, MIT.

Piggott, Glyne 2006. The phonological inerpretation of morphological structure. Course handout, EGG summer school, Olomouc. Piggott, Glyne & Heather Newell ms (2006). Syllabification, stress and derivation by phase in Ojibwa. Ms., McGill University, Montréal. Scheer, Tobias 2004. A Lateral Theory of Phonology. Vol.1: What is CVCV, and why should it be? Berlin: Mouton de Gruyter. Scheer, Tobias 2005. Slavic Vowel-Zero Alternations and Government Phonology: Two Approaches, One Solution. Formal Approaches to Slavic Linguistics 13: The South Carolina Meeting, edited by Steven Franks, Frank Gladney & Mila Tasseva-Kurktchieva, 300-311. Ann Arbor: Michigan Slavic Publications.

h. our best guess: phases exist for reasons of interpretation (Chomsky: UG reduces to merge and phase), hence

==> no interpretation, no phase