



**(Step i)** The phonological constraints in the tableau below reflect the PF-requirement of the Single-pitch Contour Hypothesis; *cf.* the tableau focuses on how the pitch is assigned for simplicity sake, though, in this step, other phonological constraints are assumed as well (*e.g.*, to determine the allomorphs). Generally, the constraints are about the pitch of the edge of the phase domain, as in (7), which says that HL/LH pitch contour should appear *inside* the domain (the same constraints are assumed for a more specific environment, *i.e.*, the compound). In addition, unaccented verbs (*e.g.*, *hare-* ‘become swollen’) have a lexical requirement that H L pitch sequence should *sandwich* the phase boundary, as in (8).

(7) General constraints: a. [phase domain ... **HL**] b. [**LH** ... phase domain]

(8) Lexical requirement: [phase domain ... **H**] **L**

	Anti-homophony	Indent -IO	(7) b	(7) a		(7)a for compounds	(7)b for compounds	Anti-homophony	Indent -IO	(7) b	(7) a
[ha <sub>re</sub> .r-u] ‘become swollen-PRS’		*!	*	*	[ha <sub>re</sub> ]-ta ‘clear up-PST’						*
[ha <sub>re</sub> ]-r-u ‘become swollen-PRS’		*!	*	*	[ha <sub>re</sub> ]-ta ‘clear up-PST’			*!		*	*
[ha <sub>re</sub> .r-u] ‘become swollen-PRS’			*	*	[ha <sub>re</sub> -na]-ka.?-ta ‘clear up-NEG-be-PST’						*
[ha <sub>re</sub> .r-u] ‘clear up-PRS’			*	*	[ha <sub>re</sub> -na]-ka.?-ta ‘become swollen-NEG-be-PST’						*
[ha <sub>re</sub> ]-r-u ‘clear up-PRS’					[na <sub>ri</sub> .o.wa.?-ta] ‘ring/become-finish-PST’ <sup>†</sup>					(*)	
[ha <sub>re</sub> .r-u] ‘clear up-PRS’	*!		*	*	[na <sub>ri</sub> .o.wa.?-ta] ‘ring/become-finish-PST’	*!		*		(*)	
[ha <sub>re</sub> ]-ta ‘become swollen-PST’		*!	*	*	[na <sub>ku</sub> .na.?-ta] ‘pass away-PST’ <sup>†</sup>						*
[ha <sub>re</sub> ]-ta ‘become swollen-PST’ <sup>†</sup>			*	*	[he <sub>da</sub> .ta.?-ta] ‘become distant-PST’ <sup>†</sup>						*

An Input-Output Identity constraint (Prince and Smolensky 1993) ensures that roots with lexically assigned accent retain their input accent pattern (for anti-homophony, see, *e.g.*, Ichimura 2006). The lexical contrast in the compound is ignored because of the high priority of the creation of [%LH...HL%] contour in the compound, resulting in the neutralization in (6)d. As for non-compound trisyllabic verbs, this model predicts, for example, he<sub>da</sub>.ta.?-ta ‘became distant’ (accented) and na<sub>ku</sub>.na.?-ta ‘passed away’ (non-accented), as in (6)e, which is exactly how they are pronounced. **(Step ii)** The past-tense affix without do-support (*e.g.*, those with <sup>†</sup> in the tableau) needs to be lowered to *v* and enter the blue-colored region, as in (6)b and d. Since the pitch-contour is already created in (Step i), this results in ha<sub>re</sub>-ta ‘became swollen,’ not \*ha<sub>re</sub>-ta. When we have a negation and thus do-support in the narrow syntax (Embick and Noyer 2001), the lowering does not happen as in (6)c. The present tense does not have a tense morpheme, so neither do-support nor lowering take place, resulting in the difference in pitch contour between (6)a and (6)b.

**Implications.** Three implications are in order. First, the idea of phase-oriented prosodic domain is empirically extended outside the C region, as argued previously. Second, the study predicts a typology between *v*-as-the-phase-head languages and T-as-the-phase-head languages, which should correlate with the prosodic domain formation and the ellipsis/replacement pattern. Finally, the phonological operations are applied much earlier than are traditionally assumed, or at least in parallel with morphological processes (Step i, *i.e.*, the phonological stage, is followed by a morphological lowering in Step ii), contributing to a growing body of literature with similar conclusions (Trommer 2001; Richards 2017; Rolle, manuscript).

**[References]** Dobashi, Y. (2018) Workspace, termination of derivation and intonational phrasing. ESLJ Spring Forum 2018. Embick, D., & Noyer, R. (2001) Movement operations after syntax. *Linguistic inquiry*, 32. /Halle, M. (1990). An approach to morphology. In *NELS 20*. GLSA./Halle, M., & Marantz, A. (1993) Distributed morphology and the pieces of inflection./Ichimura, L. K. (2006) Anti-Homophony Blocking and its Productivity in Transparadigmatic Relations./Ishihara, S. (2003) *Intonation and Interface Conditions*, Ph. D. dissertation, MIT./Ishihara, S. (2004) prosody by phase: evidence from focus intonation-wh-scope correspondence in Japanese/Ito, J., & Mester, A. (2013) Prosodic subcategories in Japanese. *Lingua*, 124./Kitagawa, Y. (2005) "Prosody, Syntax and Pragmatics of Wh-questions in Japanese," *English Linguistics*, 22./Kawahara, S. (2015) The phonology of Japanese accent. *The handbook of Japanese phonetics and phonology*./Kubozono, H. (2011). Japanese pitch accent. *The Blackwell companion to phonology*, 5./Legate, J. A. (2014) Voice and *v*: lessons from Acehnese./ Richards, N. (2017) Contiguity Theory. Rolle, N. (manuscript). *In support of an OT-DM model: Evidence from a morphological conspiracy in Degema*. lingbuzz/003746/Sande, H. L. (2017). Distributing morphologically conditioned phonology: Three case studies from Guébie. PhD. dissertation, UC Berkeley./Selkirk, E. (2011) The syntax- phonology interface. *The handbook of phonological theory*, 2./Trommer, J. (2001) *Distributed optimality*. Doctoral Dissertation, Potsdam./Wolf, M. A. (2008) *Optimal interleaving: Serial phonology-morphology interaction in a constraint-based model*. PhD dissertation, UMass.