Summary

Boersma & Hamann (Phonology 2008) showed that bidirectional use of cue constraints can lead to auditory dispersion effects.

Here we show that it can also lead to merger.





The grammar is *bidirectional*, so that */C/[35] means: • "Don't perceive [35] as /C/" (in perception) • "Don't implement /C/ as [35]" (in production)

Gradual perceptual learning algorithm

[45]		*/A/[45]	*/C/[45]	*/B/[45]
	/A/	*!		
ß	/B/			←*
	/C/		*!→	

Bidirectional use of constraints predicts diachronic merger

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Low variation



as shown in Boersma & Hamann (2008)

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High variation



Optimal perception

