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Sonn J. McCartny, University of Massachusetts, Amnerst	Included in	Authors
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The most familiar architecture for Optimality Theory is a fully parallel one, meaning that "all possible ultimate outputs are contemplated at once" (Prince and Smolensky 1993: 79). But Prince and Smolensky also	and Phonology Commons	Links
briefly entertain a serial architecture for OT, called Harmonic Serialism. The		University Libraries
a new input. This loop continues until the derivation converges (i.e., until Eval returns the same form as the input to Gen). There are clear resemblances between this approach and theories based on notions like		<u>Contact Us</u>
with serial rule-based phonology. In the implementation of Harmonic Serialism that Prince and Smolensky consider, each iteration of Gen is limited to making a single change in the input. The resulting derivation is	mmons, Phonetics and Phonology Commons	
quite similar to what rule-based phonology produces, if each rule is limited to the form A B/CD, where A is a single segment.	SHARE	
Apart from chapter 2 of Prince and Smolensky (1993), Harmonic Serialism has not figured very prominently in the literature, though with significant additional enhancements it has been used as a vehicle for incorporating rules into OT by Black (1993) and Blevins (1997).		
In this talk, I will look closely at Harmonic Serialism (without the enhancements). I will distinguish it from parallel OT and from other serial constraint-based theories such as Harmonic Phonology or "Stratal" OT. My goal is to develop a range of predictions made by Harmonic Serialism, under varying implementational assumptions, for phenomena that have been regarded as typical effects of serial derivation, such as phonological opacity. A key finding is that Harmonic Serialism doesn't improve much on classic parallel OT in analyzing opacity, and in certain other respects does		

significantly worse.

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