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Temporal fine structure coding for pitch and speech perception

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Temporal fine structure can be defined mathematically with relative ease. Understanding its perceptual importance, or even how it is coded in the peripheral auditory system, is another matter. This talk will review recent work from our lab that addresses some of these issues. The focus will be on the use and representation of temporal fine structure in complex pitch perception with spectrally resolved and unresolved components, and on the importance of temporal fine structure when using F0 information in speech to segregate target speech for competing talkers and other complex interfering sounds. [Supported by National Institutes of Health grant R01 DC 05216.]