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## Envelope information coded in the spectral domain

David McAlpine University College London Gower St, London, 020 U.K. Phone=7679 6087 Fax=7387 6368 email=d.mcalpine@ucl.ac.uk

Responses of low-frequency inferior colliculus neurones were obtained to moderate-level, high-frequency tones amplitude modulated at a rate equal to characteristic frequency (CF). Evidence for the generation of a difference tone at the CF region of the basilar membrane was investigated by adding a cancellation tone in the same ear (CF-1Hz) to produce a putative monaural beat, or in the other ear to produce a binaural beat. The neural data are consistent with the notion that low-CF neurones respond to difference tones generated by the response of the basilar membrane to complex tones at higher frequencies.