

**Seminar announcement:  
Casa Paganini – InfoMus Research Centre  
20 May 2014, 11am**

**Kinematics of Music-Induced Movement**

Petri Toiviainen & Birgitta Burger  
Finnish Centre for Interdisciplinary Music Research  
University of Jyväskylä  
Finland

Music is commonly regarded as being primarily an auditory phenomenon, and the bulk of research on music perception focuses exclusively on this sensory modality. Only recently have the multimodal aspects of music processing gained significant attention. In addition to the auditory, other sensory modalities such as visual, tactile, and proprioceptive, play a significant role in the processing of musical information. A common feature of the latter modalities is that they rely on corporeal movement.

Examples of the important role of movement in music are abundant. For instance, in most cultures music is associated with dance. Furthermore, we tend to move while listening to music, in particular when the music has a clear pulse. Additionally, corporeal movement is important for the interaction and communication between musicians, helping to maintain synchronization and convey expressive intentions. Lastly, movement is an important ingredient in social interaction associated with music listening. Music can thus be regarded as a fundamentally spatiotemporal phenomenon.

In our talk we will review work on music-induced movement that has been recently carried out at our lab. Specific topics include kinematics of music-induced movement in different age groups, embodiments of musical metre, influence of musical content, emotions, and personality on music-induced movement, as well as corporeal synchronization.