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**Experimental studies of a chain of Sakaguchi-Kuramoto oscillators** HANYU MA, DAVID MERTENS, LARS ENGLISH, Dickinson College, HANYU MA TEAM, LARS ENGLISH COLLABORATION, DAVID MERTENS COLLABORATION — The collective phase dynamics of Wien-bridge oscillators, coupled resistively, were recently shown to follow the Sakaguchi-Kuramoto model. In this talk we present experimental findings for the dynamics of rings of oscillators. For identical speeds and uni-directional nearest-neighbor coupling, we find that the system quickly approaches a steady state of identical nearest-neighbor phase offsets. We then present the effects of adding disorder to the natural speeds. We also discuss the case of bi-directional coupling, in which case chimera behavior is expected.

Hanyu Ma  
Dickinson College

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