

Texas Southern University
MATHEMATICS DEPARTMENT COLLOQUIUM

PATTERNS OF SYNCHRONY: FROM ANIMAL GAITS
TO BINOCULAR RIVALRY



Marty Golubitsky,
Ohio State University

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Room 153 at Science Building

Abstract: This talk will review previous work on quadrupedal gaits and recent work on a generalized model for binocular rivalry proposed by Hugh Wilson. Both applications show how rigid phase-shift synchrony in periodic solutions of coupled systems of differential equations can help understand high level collective behavior in the nervous system.