TEXAS ★ STATE

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The rising STAR of Texas

Texas State Topology Seminar

Thursday, 2018, November 29, 2:00-3:15 p.m., in DERR 227
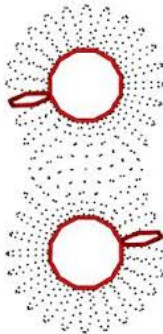
Speaker: Prof. Thomas L. Thickstun

Topic: *A monotone, degree-zero self-map of the Pontryagin surface.*

ABSTRACT

In 2017, T.L. Thickstun and R.J. Daverman proved the following:

Theorem: *Any monotone self-map of the Pontryagin surface having absolute degree degree one is approximable by homeomorphisms.*

This talk will first define all terms in detail (especially *Pontryagin's surface*) and then outline the construction of an example which shows that the assertion of the above theorem becomes false if the degree-one hypothesis is discarded.