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 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.