



Topology Seminar at Texas State

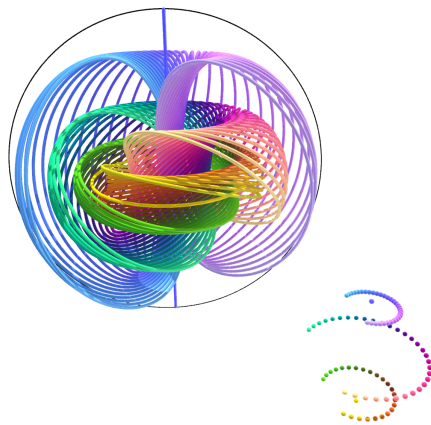
When: Friday, February 18, 2023, 11:00 a.m.

Where: DERR 333 *and* ZOOM (Zoom info at bottom of page)

Presenter: David Snyder

Title: Applying the Hopf fibration to robotic navigation of quadrotors

Abstract: We present a 2020 result of S. Watterson and V. Kumar of UPenn which yields a new algorithm for a geometric robotic controller guiding a quadrotor by using the Hopf fibration. The mapping is valid for almost all of $SO(3)$ and has a singularity further from hover than previous such models. (No quadcopters will be harmed in the making of this presentation).



Zoom Information

Meeting URL ([click this](#))
Meeting ID: 977 0390 3382
Password: manifolds