1171-05-99   **Florian Frick*** (`frick@cmu.edu`). *The topology of projective codes and the distribution of zeros of odd maps.*

I will present a generalization of the Borsuk–Ulam theorem that provides information about the structure of zeros of a collection of odd, real-valued maps defined on spheres. Quantitative bounds depend on the size of codes in real projective space. I will mention several applications of this result in combinatorics and discrete geometry.

This is joint work with H. Adams and J. Bush. (Received August 09, 2021)