

1134-37-143

Pengfei Zhang* (pengfei.zhang@ou.edu), 601 Elm Avenue, PHSC 423, Norman, OK 73019.

Homoclinic Intersections for Generic Geodesic Flows on S^2 .

We study some generic properties of the geodesic flows on the two sphere with Riemannian metrics with positive curvature.

We show that generically, every hyperbolic closed geodesic admits transverse homoclinic intersections. This is a joint

work with Z. Xia. (Received August 31, 2017)