

1172-58-14

**Chamsol Park\***, parkcs@unm.edu. *Eigenfunction Restriction Estimates on curves with nonvanishing geodesic curvatures with nonpositive sectional curvatures.*

There have been many studies of eigenfunctions of the Laplace-Beltrami operator on compact Riemannian manifolds. One way to study the eigenfunctions is to consider the  $L_p$  norms of the eigenfunctions restricted on submanifolds. Burq, G'erard, and Tzvetkov, and Hu found restriction estimates on curves with nonvanishing geodesic curvatures, which hold for any compact Riemannian manifolds. In this talk, we want to talk about analogous restriction estimates when compact Riemannian manifolds have nonpositive sectional curvatures. (Received July 26, 2021)