

SHOOTING FROM SINGULARITY TO SINGULARITY AND A QUASILINEAR p-LAPLACE-BELTRAMI EQUATION WITH INDEFINITE WEIGHT

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For surfaces of revolution, we prove the existence of infinitely many sign-changing rotationally symmetric solutions to a wide class of p-Laplace-Beltrami equations with polynomial like nonlinearities. For this purpose, we extend existing methods for the semilinear case ($p = 2$) with positive weight and the p-Laplacian Dirichlet problem in a ball reducing the problem to shooting in a second order differential equation from a singularity to another singularity.

In Special Session 28 on Recent Trends in Nonlinear Elliptic PDEs at the Mathematical Congress of the Americas 2025.