

# Inverse and direct bifurcation problems for nonlinear eigenvalue problems

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## **Abstract**

In this talk, we consider the inverse and direct bifurcation problems of nonlinear eigenvalue problems. We first introduce the typical inverse problem for elliptic equations for the better understanding of inverse problems. Then we focus on the asymptotic properties of bifurcation curves for some nonlinear ordinary differential equations. By using these asymptotic properties, we propose a new inverse bifurcation problem.