Multiple solutions of a discrete nonlinear boundary value problem involving p(k)-Laplace Kirchhoff type operator

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时　间： 2023年9月29日，14:30-15:30

地　点： 北京理工大学良乡校区文翠楼E609

摘要： The differential equations and variational problems involving non-homogeneous differential operators have been intensively studied in the last few decades since they can model various phenomena arising from the study of elastic mechanics, electrorheological fluids and image restoration. In recent years, many authors have discussed the existence and multiplicity of solutions for discrete boundary value problems by using variational methods. In this talk we prove the existence of at least one or two nontrivial solutions of a discrete nonlinear boundary value problem of p(k)-Laplace Kirchhoff type in a finite dimensional Banach space. Our approach is based on variational methods and on critical point theory.