



## 偏微分方程及其应用中心

# 学术报告

**报告题目:** On the existence of nontrivial solutions for a class of elliptic systems

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**地点:** 腾讯会议: 695-437-096

**摘要:** In this talk, we are concerned with a class of elliptic system with linearly coupled terms. Under the suitable assumptions on the nonlinearity, which includes Sobolev subcritical or critical growth, nontrivial solutions and ground states are obtained for the systems. In particular, the existence of ground state solution is obtained when the system is indefinite. Multiplicity of nontrivial solutions are established for a parameter is near the associated eigenvalue of linearized problem.