数学与系统科学研究院

计算数学所网络学术报告

报告人：　张晓斐 研究员

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报告题目：

Soliton and vortex for N-component coupled nonlinear Schrödinger equaiton: application to Bose-Einstein condensate

邀请人：常向科 副研究员

报告时间：2020 年 11 月 6 日（周五）

下午 **16:00-17:00**

报告工具：腾讯会议（**ID：905 503 330**）

Abstract：

In this talk, we will discuss both the static and dynamics of soliton and vortex for N-component coupled nonlinear Schrödinger equation, with the application in Bose-Einstein condensate. By using the variational analysis and numerical simulation, we obtain a variety of sotion and vortex, such as ring dark soliton, vortex-antivortex, half-quantum vortex, twisted and double-quantum spin vortex. Finally, the effects of variously controllable parameters on the statical and dynamical properties of such topological defects are also investigated in detail.

欢迎大家参加！