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中国科学院数学与系统科学研究院

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## Academy of Mathematics and Systems Science, CAS Colloquia & Seminars

**Speaker:** Chong Liu, Northwest University**Inviter:****Title:** Recent advance in breathers of Manakov equations**Time & Venue:** 2022.11.12 09:00-10:30 腾讯会议: 461-747-037**Abstract:**

Manakov equations play a key role in understanding nonlinear coupling in many physical contents with different scales in time and space, including optics, cold atoms, crossing seas, and even financial systems. Finding new nonlinear wave phenomena and understanding their physics in Manakov equations are still a challenge in both physics and mathematics. We will present in this talk our recent results for a particular type of oscillating localised structures (known as "breathers") of Manakov equations. These include non-degenerate breathers and their role in vector modulation instability.

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