## 数学与系统科学研究院 计算数学所学术报告

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报告题目:

Rogue waves in the reverse time integrable nonlocal nonlinear equations

邀请人: 胡星标 研究员

报告时间: 2018年5月18日(周三)

晚上 21:00-22:00

报告地点: 数学院南楼七层

702 教室

## **Abstract:**

1.By using Darboux transformation method, we derive general rogue waves for these three nonlocal equations, solutions formulas are given under certain reductions of wave functions and adjoint wave fuctions. 2. More interestingly, we find a unied binary DT for this nonlocal DS syste. Thus, rogue wave solutions in nonlocal DSI and DSII equation can be expressed in a unied formula. 3. Dynamics of these rogue waves in further analyzed.For these reverse-time nonlocal equations, it is shown that general rogue waves can be bounded all space and time. More importantly, they can also develop finite-time collapsing singularities.

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