数学与系统科学研究院

计算数学所学术报告

报告人：　**Prof. Baofeng Feng**

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报告题目：

A unified tau-function structure for the Degasperis-Procesi equation and the Novikov equation

邀请人：　常向科 副研究员

报告时间：**2019** 年 **12** 月 **25** 日（周三）

下午 **15:30-16:30**

报告地点：　数学院南楼七层

702 教室

Abstract:

It is known that, through hodograph (reciprocal) transformation, Degasperis-Procesi (DP) equations is linked to the negative flow of the Kaup-Kuperschmidt (KK) hierarchy while the Novikov equation is connected to the negative flow of the Sawada-Kotera (SK) hierarchy. In this talk, we will show how to derive the DP equation and Novikov equation from the pseudo-3 reductions of the CKP and BKP hierarchies, respectively and reveal a unified tau-function structure behind the DP and Novikov equations with a standard pfaffian lattice as the building blocks.

欢迎大家参加！