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：

On Singularity Formation of a Nonlinear Nonlocal System

邀请人：　曹礼群研究员

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上午 **10**：**00**～**11**：**00**

报告地点：　科技综合楼三层 **301**

计算数学所小报告厅

Abstract：

We introduce a 2x2 nonlinear nonlocal system. On the one hand, it models possible blow-up mechanism in the 3D Euler equations; On the other hand, it can be seen as a further step in the recent progress in understanding the role of nonlocal operators in differential equations. We will present the following results: Local well-posedness for general initial data, global well-posedness for a class of special initial data, and finite-time singularity for another class of special initial data.

欢迎大家参加！