数学与系统科学研究院

计算数学所博士后定期学术报告

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报告题目：

Some studies on E-L model for compressible liquid crystals system

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报告地点： 科技综合楼三层 311

计算数学所报告厅

Abstract：

Liquid crystal is an intermediate state between liquid and crystal. It flows like a liquid, but its molecules are oriented in a crystal-like way. Because its outstanding physic-chemical and optical properties, it can be widely applied to many devices. Examples of liquid crystal can largely be found both in natural world and in technological applications. This talk will deal with the Ericksen-Leslie model about compressible nematic liquid crystals system. We adopt the concept of re-normalized solution and do a priori estimate to obtain our consequences. The results contain the existence and delicate properties of weak solutions for compressible liquid crystals system. And the properties include the boundedness of its energy and the asymptotic behavior of solutions in the long time evolution.

欢迎大家参加！