报告题目：Blowup rate estimates of a singular potential near its physical boundary in the Laudau-de Gennes theory

报告人：徐翔（Old Dominion University）

报告时间：2020-11-18 星期三 9:00-10:00

报告地点：腾讯会议（会议号 212 178 417）

摘要：The Landau-de Gennes theory is a type of continuum theory that describes nematic liquid crystal configurations in the framework of the Q-tensor order parameter. In its free energy, there is a singular bulk potential which is considered as a natural enforcement of a physical constraint on the eigenvalues of symmetric, traceless Q-tensors. In this talk we shall discuss several blowup rate estimates of this singular potential and its gradient near the physical boundary of Q.

非线性数学模型与方法教育部重点实验室
中法应用数学国际联合实验室
上海市现代应用数学重点实验室
复旦大学数学研究所