



## **ICTS Seminar**

Title : Nematic Liquid Crystals in Lipschitz domains

Speaker: Anupam Pal Choudhury, Johann Radon Institut (RICAM), Austria

Date: Wednesday, May 2, 2018

Time : 3:00 PM

Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore

Abstract: In this talk, we shall discuss the simplified Ericksen–Leslie model for

nematic liquid crystals in three dimensional bounded Lipschitz

domains. Applying a semilinear approach, we shall discuss the proof

of local and global well-posedness (assuming a smallness condition

on the initial data) in critical spaces for initial data in L 3  $\sigma$  for the

fluid and W1,3 for the director field. The analysis of such models, so

far, has been restricted to domains with smooth boundaries.

Website: www.icts.res.in

Email: academicoffice@icts.res.in