

Facultatea de Matematică și Informatică anunță conferința

"Liquid crystal dynamics"

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Abstract. The two main models of nematodynamics of liquid crystals are presented: the Ericksen-Leslie director theory and the Eringen micromotion theory. The variational structure of both models, after neglecting the dissipative terms, is discussed and a sketch of the proof of how the Eringen model includes the Ericksen-Leslie model is sketched. This was a 25 years old open problem in the liquid crystal community. Time permitting, it will be shown how the geometric insight into the Ericksen-Leslie model has led to the well-posedness result for the dissipative equations.