

Phase Transitions in Liquid Crystals: effects of surfaces and ferroelectric subphases

Erice (TP) July 10 - 17, 2004

Directors: E.Gorecka, M.Marinelli, P.Pasini

Schedule

July 10

Afternoon: Arrival

21.15: Welcome Reception at the Marsala Lecture Hall (S. Rocco)

July 11

9.00 – 9.20

Welcome

9.20 – 10.10

J. Thoen

Calorimetric study of phase transitions in liquid crystals

10.20 – 11.10

M.Cepic

Continuous modelling of polar smectics

11.20 – 11.50

Coffee Break

11.50 – 12.40

C.Zannoni

Lunch Break

16.00 – 16.50

C.Rosenblatt

Control of surface orientation

17.00 – 18.00

**ORAL
Presentations**

Bonalde

Long range order in nematics strongly confined in fractal silica gels

Cordoyannis

Ricci

18.00 – 18.20

Coffee Break and Posters

18.20 – 19.20

**ORAL
Presentations**

Bazec

A simulation of surface effects on polymerization induced phase separation in PDLC.

Micheletti

Markun

Pseudo-Casimir force in smectic liquid crystals

July 12

9.00 – 9.50

J.Thoen

Calorimetric study of phase transitions in confined liquid crystals

10.00 – 10.50

D.Finotello

Liquid crystal chain length induced anchoring transitions under confinement

11.00 – 11.30

Coffee Break

11.30 – 12.20

C.Rosenblatt

Orientational Transitions at a Liquid Crystal – Substrate

Interface

Lunch Break

15.40 – 16.00	ORAL Presentations	Tordini <i>Growth and alignment of single nematic liquid crystalline domains in a magnetic field</i>
16.00 – 16.50	S.Zumer	
17.00 – 17.50	F. Mantegazza	<i>Nematic ordering in presence of quenched disorder</i>
18.00 – 18.20		Coffee Break
18.20 – 19.10	M.Marinelli	<i>Kinetic of phase transitions in confined liquid crystals</i>

July 13

9.00 – 19.00		Excursion to Selinunte and Segesta
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July 14

9.00 – 9.50	D.Feldman	<i>Destruction of bulk ordering by surface randomness</i>
10.00 – 10.50	E.Gorecka	<i>Polar order of soft matter</i>
11.00 – 11.30		Coffee Break
11.30 – 12.20	J.Selinger	<i>Tilt, Polarity, and Chiral Order in Bent-Core Liquid Crystals</i>

Lunch Break

15.40 – 16.00	ORAL Presentations	Denhof
16.00 – 16.50	B.Pansu	<i>Introduction to resonant scattering ; application to smectics (theory and experiments)</i>
17.00 – 17.50	M.Cepic	<i>Discrete modelling of polar smectics</i>
18.00 – 18.20		Coffee Break
18.20 – 19.10	D.Finotello	<i>Order and Disorder Effects on the Orientational Order of Liquid Crystal Dispersions</i>
20.30		

SOCIAL DINNER**July 15**

9.00 – 9.50	B.Pansu	<i>X-ray scattering on complex chiral architectures (TGB, smectic blue phases, SmQ....)</i>
10.00 – 10.50	J.Selinger	<i>Isotropic-Nematic Transition in Liquid-Crystalline Elastomers: Lattice Model with Quenched Disorder</i>
11.00 – 11.30		Coffee Break
11.30 – 12.20	E.Gorecka	<i>Ferro-, ferri- and antiferroelectric liquid crystals</i>

Lunch Break

16.00 – 16.50	D.Feldman	<i>Glass States of Nematics in Random Porous Media</i>
17.00 – 17.50	R.Barberi	<i>Electric field induced transitions in nematic liquid crystals I</i>
18.00 – 18.20		Coffee Break
18.20 – 19.10	I.Musevic	<i>Surfaces and interfaces of complex fluids studied by scanning probe techniques.</i>

July 16

9.00 – 9.50	R.Barberi	<i>Electric field induced transitions in nematic liquid crystals II</i>
10.00 – 10.50	I.Musevic	<i>Forces at liquid crystal interfaces.</i>
11.00 – 11.30		Coffee Break
11.30 – 12.30		R. Caputo <i>Optical and Electro-Optical Properties of POLICRYPS Gratings</i>
	ORAL Presentations	De Luca <i>Color tunable distributed feedback organic microcavity laser</i>
		Veltri <i>A model for enforced unperturbed states and critical reorientation of liquid crystals acted on by competing light beams</i>

Lunch Break**July 17****Departure**