

Report on the I-st workshop of ESF PHASE network held in Kalimera Kriti, Krete from 23 to 26 September 2000.

Objectives of the workshop:

During this first meeting of ESF network PHASE the participants were supposed to learn better about the actual work of the others. For this purpose each group was given 1 hour presentation, where the current state of the work was presented. The talks took around 45 minutes, were very informal, and were followed by a lot of discussions.

The workshop was successful to my opinion. Most participants during the meeting and after noted that a very good balance between the academic quality of presentations and very friendly and informal discussions was achieved. The environment also served productive discussions within smaller groups of 5-15 participants.

Organization of the workshop:

The workshop was organized by K.Staliunas. The meeting place and conference utilities were organized by Travel Agency TUI.

Participants of the workshop:

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27. Damia Gomila IMEDEA (CSIC-UIB), Palma de Mallorca (Spain); gomila@imedea.uib.es

Presentations of the workshop:

- P.Di Trapani: "Quadratic solitons and self-focusing/self-defocusing in up and down conversion regime"
- E.Roldan: "Ising-Bloch transition in nonlinear optics"
- G.Valcarcel: "Rocking Patterns"
- M.Tlidi: Localized structures in passive diffractive resonators;
- M. Le Berre: "Kinetics of pattern formation in the Degenerate OPOs".
- V.Taranenko: "Patterns and Solitons in VCSELs"
- K.Staliunas: "Spatio-temporal spectra of noisy patterns"
- S.Longhi: "Nonadiabatic effects in optical pattern formation".
- M. San Miguel: "Bloch walls in Optical Parametric Oscillators"
- P.Collet: "Dynamics of localized structures in the Vectorial GLE"
- D.Gomila: "Transition from hexagons to turbulence in a Kerr cavity"
- W.Lange: "Dissipative solitons and polarization domains in a single-mirror system".
- P.Ramazza: "Localized structures in a nonlinear interferometer"
- V.Sirutkaitis: "Phase modulation in Synchronously Pumped OPOs"
- G.L.Oppo: Optical sprinklers and domain walls, spatial solitons and everything else in OPOs.
- M.Saffman: "Singly resonant $\chi(2)$ cavities: experimental and theoretical results"
- D.Michaelis: "Selforganization in optical transmission lines with amplifier and absorber"
- S.Ducci: "Pattern Formation in Optical Parametric Oscillator"
- M.Taki: "Walk-off induced pattern selection in non degenerate optical parametric oscillators".

Schedule:

The duration of talks was 60 min. including discussions.

	<i>Morning</i>	<i>Afternoon</i>
23. Sept. (Saturday)	10:30: Introduction and organizational remarks. 11:00: P.Di Trapani 12:00: E.Roldan + G.J.de Valcarcel	15:00: M.Tlidi 16:00: M. Le Berre 17:00: V.Taranenko
24. Sept. (Sunday)	10:00: K.Staliunas 11:00: S.Longhi 12:00: M. San Miguel + P.Collet + D.Gomila	15:00: W.Lange 16:00: P.Ramazza 17:00: V.Sirutkaitis
25. Sept. (Monday)	10:00: G.L.Oppo 11:00: M. Saffman 12:00: D.Michaelis	15:00: S.Ducci 16:00: M.Taki 17:00: postdeadline talks

26. Sept. (Tuesday)	10:00-12:00: Meeting of organisation committee (I) 12:00-18:00: Excursion to University of Heraklion
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