



# 40 years of Molecular Physics @ Unical

1<sup>st</sup> March 2019, 09:00-14:00

Seminar Room – Department of Physics – Cubo 31C, University of Calabria

## Workshop Agenda

*Master of Ceremony:* Cesare Umeton

### Welcome

Gino Mirocle Crisci  
Vincenzo Carbone

Welcome  
The department of Physics @ Unical

### Materials – chairman Maria De Santo

Philippe Barois

Sailing from liquid crystals to metamaterials with Roberto: a great European venture

Sandro Pace

Superconductivity today and tomorrow: perspectives and open problems

Bruno Zappone

Analogies in the spontaneous formation of periodic patterns in smectics and superconductors

### Optics – chairman Pasquale Pagliusi

Massimo Inguscio

Time, light, atoms

Francesco Simoni

The pioneering beginning of optics of liquid crystals at Unical: from cholesterics to giant optical nonlinearities

Gabriella Cipparrone

Photonics Lab.

### A long story – chairman Antonio De Luca

Mauro Ghedini

The long march towards the MaTeRiA project

Carlo Versace

Molecular Physics, the starting @ Unical

Michele Giocondo

INFM and CNR @ Unical

### Future – chairman Pierluigi Veltri

Giuseppe Gigli

Optics and Nanotechnology meet Precision Medicine

Riccardo Barberi

Cyber Physical Security

Alberto Bravin

4D navigation through samples using synchrotron radiation X-rays

### Conclusions

Roberto Bartolino

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Liquid Crystals are beautiful and mysterious  
P.G. de Gennes, Nobel Prize

The workshop “40 years of Molecular Physics at Unical”, organized by the Physics Department of the University of Calabria and by the CNR Institute of Nanotechnology, presents some of the most recent topics in the physics of matter.

It is also an opportunity to pay tribute to the professional and scientific career of Roberto Bartolino, Full Professor of Applied Physics, who founded and coordinated the Molecular Physics research group at the University of Calabria for over forty years.