

Scientific and Organizing Committee CNR Nanotec

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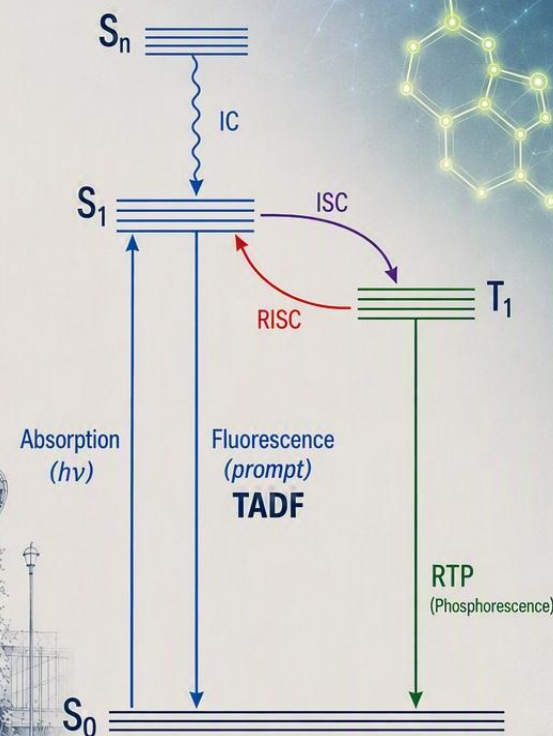
TADF & RTP
FROM PHOTOPHYSICS TO APPLICATIONS
LECCE, ITALY | 2026



WORKSHOP

TADF and RTP Materials: From Photophysics to Applications

*Optoelectronic Devices,
Sensors, and Biomedicine*



IC = Internal Conversion
ISC = Intersystem Crossing
RISC = Reverse Intersystem Crossing
TADF = Thermally Activated Delayed Fluorescence
RTP = Room Temperature Phosphorescence

Lecce, 31 August – 2 September 2026

CNR Nanotec – Rita Levi Montalcini seminar room

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DAY 1 | MONDAY, 31 AUGUST

12:00 – 14:00 | **Registration and Light Lunch**

14:00 – 14:10 | **Welcome Address and Opening Remarks**

14:10 – 14:25 | Introduction to the Workshop: Aims, Scientific Focus and Expected Outcomes

Antonio Maggiore, CNR Nanotec, Lecce, Italy

14:25 – 15:00 | Aggregation-Controlled Red-to-NIR Room-Temperature Phosphorescence in Gold(I)-Based Soft Materials

Osamu Tsutsumi, Ritsumeikan University, Kyoto, Japan

15:00 – 15:35 | Heptazines, a New Family of Molecules with High Potential in Delayed Fluorescence and Organic Electronics: New Syntheses and Recent Applications

Pierre Audebert, ENS Paris-Saclay, Gif-sur-Yvette, France

15:35 – 16:10 | Synthesis and Applications of Thiophene-Based Materials

Mattia Zangoli, CNR-ISOF, Bologna, Italy

16:10 – 16:30 | **Coffee Break**

16:30 – 17:05 | Controlling Excited-State Pathways in TADF Organic Emitters: From Molecular and Supramolecular Design to Functional Applications

Antonio Maggiore, CNR Nanotec, Lecce, Italy

17:05 – 17:40 | Electrochemistry: A Simple Tool to Determine Energy Levels... but Handle with Care!

Fabien Miomandre, ENS Paris-Saclay, Gif-sur-Yvette, France

17:40 – 18:00 | **General Discussion, Wrap-Up and Practical Information**

21:00 | **Workshop Dinner, Lecce**

DAY 2 | TUESDAY, 1 SEPTEMBER 2026

10:00 – 10:50 | **Open Seminar**

Directed Self-Organization of Functional Helical Aggregates toward Photonic and Mechano-Optical Materials

Osamu Tsutsumi, Ritsumeikan University, Kyoto, Japan

10:50 – 12:30 | **CNR Nanotec Laboratory Tour**

12:30 – 12:50 | **PhD Student Talk**

Smart π -Conjugated Luminescent Small Molecules: TADF and RTP for Nanomedicine and Sustainable Wood Technology

Chiara Di Rosa, CNR Nanotec, Lecce, Italy

12:50 – 13:10 | **PhD Student Talk**

Novel Heptazine-Core Molecular Materials for Delayed Fluorescence

Filippo Battaglia, ENS Paris-Saclay, Gif-sur-Yvette, France

13:10 – 14:30 | **Lunch Break**

14:30 – 15:05 | Spin-Orbit Coupling and Delayed Fluorescence: From Metal-Free Emitters to Transition-Metal TADF Complexes

Piotr Pander, Silesian University of Technology, Gliwice, Poland

15:05 – 15:40 | TADF and RTP in Push-Pull Compounds under the Gaze of Time-Resolved Spectroscopy

Benedetta Carlotti, University of Perugia, Perugia, Italy

15:40 – 16:15 | From Physical Vapour Deposition to Solution Processing of Small Molecules for OLED Fabrication

Marco Pugliese and Fabrizio Mariano, CNR Nanotec, Lecce, Italy

16:15 – 16:45 | **General Discussion, Wrap-Up and Practical Information**

16:45 | **Departure for the Ionian Coast and Excursion**

21:00 | **Workshop Dinner, Santa Maria al Bagno**

DAY 3 | WEDNESDAY, 2 SEPTEMBER

10:30 – 13:00 | **Round Table**

Future Collaborative Proposals and Joint Research Directions

13:30 | **Farewell Lunch**