



SCINT 2024

SUMMER SCHOOL



Milan - July 6th-7th, 2024

SCIENTIFIC PROGRAMME

LOCATION:

University of Milano - Bicocca, Bicocca, Building U6, Viale Piero e Alberto Pirelli 22, Milan, Italy

Graduation Room; 2nd Floor - Department of Law

CONTACT: scint2024@promoest.com

ABOUT THE SUMMER SCHOOL

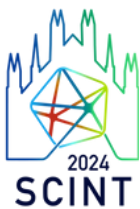
The primary goal of this school is to provide PhD students and young researchers with an advanced understanding of the principles and applications of scintillators. The program covers fundamental scintillation as well as advanced concepts.

At the end of each day, social events will be organized to promote social interaction and the inclusion of young researchers in our scientific community.

During the School, the participants will have the opportunity to present a poster and a short oral presentation of their research work.



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SCINT2024
[website](#)



The school is supported by the SPARTE project.
Additional contribution is provided by the UNICORN and TWISMA projects.





DAY 1

Saturday July 6th



| Time | Schedule | Lecturer |
|---------------|--|---------------------|
| 9:00 - 9:50 | Scintillation physical processes in bulk materials and nanocrystals/nanocomposites | Christophe Dujardin |
| 9:50 - 10:40 | Key scintillator parameters and their estimation | Kristof Pawels |
| 10:40 - 11:00 | <i>Coffee Break</i> | |
| 11:00 - 11:50 | Luminescence and energy transfer processes | Angelo Monguzzi |
| 11:50 - 12:40 | Role of Defects in scintillation | Francesca Cova |
| 12:40 - 13:30 | Thermally Stimulated Luminescence for defects investigation | Mauro Fasoli |
| 13:30 - 14:30 | <i>Lunch</i> | |
| 14:30 - 15:20 | Students presentations | |
| 15:20 - 16:10 | Electron Paramagnetic Resonance characterization of defects in scintillators | Maksym Buryi |
| 16:10 - 16:30 | <i>Coffee Break</i> | |
| 16:30 - 17:20 | Technologies of crystal growth from melt | Oleg Sidletskiy |
| 17:20 - 18:10 | Nanocrystals synthesis and their embedding in polymeric matrices | Sergio Brovelli |
| 18:10 - ... | <i>Social Event</i> | |



DAY 2

Sunday July 7th



| Time | Schedule | Lecturer |
|---------------|--|----------------------------------|
| 9:00 - 9:50 | Energy resolution and non-proportionality of scintillators | Agnieska Syntfeld-Kazuch |
| 9:50 - 10:40 | Metamaterials approach for scintillation applications | Gregory Bizarri |
| 10:40 - 11:00 | <i>Coffee Break</i> | |
| 11:00 - 11:50 | Computational Montecarlo simulations | Marco Pizzichemi |
| 11:50 - 12:40 | Scintillators for High Energy Physics and medical imaging | Etiennette Auffray Hillemanns |
| 12:40 - 13:30 | Scintillators in Nanomedicine | Anne-Laure Bulin |
| 13:30 - 14:30 | <i>Lunch</i> | |
| 14:30 - 15:20 | Students presentations | |
| 15:20 - 16:10 | Scintillators in industrial applications | Paul Schotanus |
| 16:10 - 16:30 | <i>Coffee Break</i> | |
| 16:30 - 17:20 | Frontiers in scintillators research | Martin Nikl |
| 17:20 - 18:10 | Writing an European project | Patricia Odet |
| 18:10 - ... | <i>Social Event</i> | |