CARISMA III – 3rd Summer School of C²TN  
5-7 September 2022

PROGRAMME

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<th>5 September</th>
<th>6 September</th>
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<tr>
<td><strong>09:15 – 09:30</strong></td>
<td>Opening Session</td>
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| **First Session** | 5.9-I  
5.9-II | 6.9-I  
6.9-II  
6.9-III | 7.9-I  
7.9-II  
7.9-III |
| **11:00 – 11:30** | Break | Break | Break |
| **Second Session** | 5.9-III  
5.9-IV  
5.9-V | 6.9-IV  
6.9-V | 7.9-IV  
7.9-V  
7.9-VI |
| **13:00 – 14:30** | Lunch | Lunch | Lunch |
| **14:30 – 15:30** | Lab sessions | Lab sessions | Lab sessions |
| **15:45 – 16:45** | | | **Closing Session** |

Lectures Topics:

**5 September**
5.9- I: How science really works? (Dulce Belo, duration 45’)
5.9-II: Once upon a time... A quartz grain life (Ana Luisa Rodrigues, duration 30’)
5.9-III: What do Cultural Heritage pieces hide? (Victoria Berdasco, duration 30’)
5.9-IV: Ionizing radiation technologies for a sustainable environment (Joana Madureira, duration 30’)
5.9-V: Radiation for Material, Environmental and Health Sciences Research at IRIS (Pedro Santos, duration 30’)

**6 September**
6.9- I: Orphan Sources Risks and Contaminated Goods (Isabel Paiva, duration 30’)
6.9-II: Drones being FRIENDS in radioactive scenarios (José Corisco, duration 30’)
6.9-III: Assessment of Human Exposure to Air Pollution to Change the Way People Move in Cities (Marta Almeida, duration 30’)
6.9-IV: From structure and dynamics to new therapeutic approaches: a computational strategy (Rita Paiva Melo, duration 30’)
6.9-V: Radiation for health… what?! (Alice D’Onofrio & Rúben Diogo Silva, duration 60’)

**7 September**
7.9-I: Radiation for Material, Environmental and Health Sciences Research at IRIS (Pedro Santos, duration 30’)
7.9-II: Assessment of Human Exposure to Air Pollution to Change the Way People Move in Cities (Marta Almeida, duration 30’)
7.9-III: From structure and dynamics to new therapeutic approaches: a computational strategy (Rita Paiva Melo, duration 30’)
7.9-IV: Orphan Sources Risks and Contaminated Goods (Isabel Paiva, duration 30’)
7.9-V: Drones being FRIENDS in radioactive scenarios (José Corisco, duration 30’)
7.9-VI: How science really works? (Dulce Belo, duration 45’)

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**Closing Session**
7 September
7.9- I: Thermoelectricity, a new pathway towards sustainability: from materials to devices
   (Beatriz Santos & Rodrigo Coelho, duration 40’)
7.9-II: An advanced method to produce micro/nano polymer fibers (Cristiana Rodrigues,
   duration 20’)
7.9-III: Single Component Molecular Conductors for Molecular Electronics (Dulce Belo, duration 30’)
7.9-IV: Non Covalent Interactions on Functional Molecular Materials (Sandra Rabaça, duration 30’)
7.9-V: SIMPLE dark matter searches (Miguel Felizardo, duration 30’)
7.9-VI: A vision from the sea: Provenance studies applied to Roman lead artefacts (Susana Gomes,
   duration 30’)

Laboratory Sessions: (duration – 1.0h each session)

Session 1: Gamma Spectrometry laboratories (Mário Reis & Marta Santos)
Session 2: X-ray fluorescence spectrometry in the study of ancient metallic artefacts (Pedro Valério)
Session 3: SIMPLE and Air Quality applications (Miguel Felizardo & Nuno Canha & Sergio Hoyos)
Session 4: Insight the Solid State Group (António Gonçalves & Sandra Rabaça)
Session 5: In Silico End-to-End Protein–Ligand Interaction Characterization Pipeline: The Case of
   SARS-CoV-2 (Rita Paiva Melo & Susana Cruz)