Session Program

7–10 Apr 2025

1st TIMES Workshop joint with ETSF

Session 4

Main Physics Building, Bell Lecture Theatre
School of Mathematics and Physics Queen's University Belfast University Rd, Belfast BT7 1NN, United Kingdom

Wednesday 9 April

09:00

Session 4: Ab initio methods for non-equilibrium phenomena

Session |
Location: Main Physics Building, Bell Lecture Theatre, School of Mathematics and Physics Queen's University Belfast University Rd, Belfast BT7 1NN, United Kingdom |
Convener: Dr Davide Sangalli

09:00–09:40 **Ultrafast optical processes in 2D semiconductors**

Speaker
Stefano Dal Conte

Location
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09:40–10:20 **Exciton-phonon coupling**

Speaker
Claudio Attaccalite

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10:20–10:50 **Coffee break**

10:50–11:30 **Exciton-phonon dynamics from first principles**

Speaker
Enrico Perfetto

Location
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11:30–12:10

Modeling exciton interactions near defects in 2D materials within an ab initio excitonic tight-binding framework

Speaker
Steven Bos

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12:10–12:50

Time-Resolved ARPES with TDDFT: Capturing Ultrafast Electron Dynamics in Real Materials

Speaker
Umberto De Giovannini

Location
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12:50