

Session Program

4-6 Jun 2025

Bio-inspired Soft Matter 2025

Selected Talk

Higgs Centre for Theoretical Physics James Clerk Maxwell Building, 4305
Mayfield Road Edinburgh EH9 3JZ UK

Wednesday 4 June

12:40

Selected Talk: Kasturi Barkataki (Arizona State University) - Novel topological measures of multi-chain complexity in biopolymers

Session |

Location: Higgs Centre for Theoretical Physics James Clerk Maxwell Building, 4305, Mayfield Road Edinburgh EH9 3JZ UK

13:00

14:40

Selected Talk: Oliver Henrich (Department of Physics, University of Strathclyde, Glasgow) - oxDNA3 - Introducing Sequence-Specific Curvature and Elasticity into a Coarse-Grained DNA Model

Session |

Location: Higgs Centre for Theoretical Physics James Clerk Maxwell Building, 4305, Mayfield Road Edinburgh EH9 3JZ UK

15:00

16:20

Selected Talk: Thomas Williamson (School of Engineering, University of Edinburgh) - Quantifying the Mechanical Properties of Biomolecular Condensates

Session |

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16:40

Thursday 5 June

10:20

Selected Talk: Jordi Faraudo (ICMAB-CSIC) - Engineered hydrogels for cancer immunotherapy: a theoretical/computational perspective

Session |

Location: Higgs Centre for Theoretical Physics James Clerk Maxwell Building, 4305, Mayfield Road Edinburgh EH9 3JZ UK

10:40

12:40

Selected Talk: Tom Girard (Laboratoire Charles Coulombs (L2C, Université de Montpellier)) - Stress localization in biomimetic prototissues

Session |

Location: Higgs Centre for Theoretical Physics James Clerk Maxwell Building, 4305, Mayfield Road Edinburgh EH9 3JZ UK

13:00

14:40

Selected Talk: Diego Lopez Barreiro (University College London) - Bio-inspired materials based on chimeric structural proteins

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15:00

Friday 6 June

11:10

Selected Talk: Manish S Kushwah (Aston Institute for Membrane Excellence) - Deciphering Dynamin Polymerisation Mechanism and Regulation using Mass Photometry enabled Single-Molecule-Counting and Particle-Tracking

Session |

Location: Higgs Centre for Theoretical Physics James Clerk Maxwell Building, 4305, Mayfield Road Edinburgh EH9 3JZ UK

11:30