

Monday 24 February

13:30

Talk

Session |

Location: James Clerk Maxwell Building , Higgs Centre Seminar Room (4305), School of Physics and Astronomy University of Edinburgh James Clerk Maxwell Building Peter Guthrie Tait Road Edinburgh EH9 3FD | **Convener:** James Edwards

13:30-14:15

Unified Worldline treatment of a Dirac particle with (pseudo)scalar and (axial)vector couplings

Speaker

Olindo Corradini

14:15

14:15 **Talk**

Session

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14:15-15:00

Low-energy master formulae on the loop and line in a homogeneous electromagnetic field

Speaker

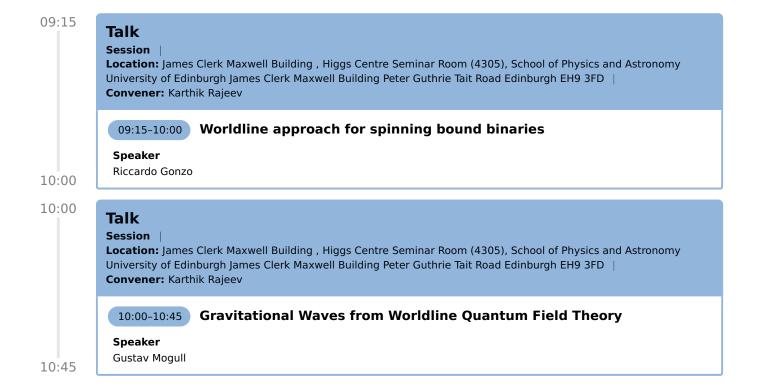
Patrick Copinger

15:00

Tuesday 25 February

09:15 Talk Session | Location: James Clerk Maxwell Building, Higgs Centre Seminar Room (4305), School of Physics and Astronomy University of Edinburgh James Clerk Maxwell Building Peter Guthrie Tait Road Edinburgh EH9 3FD **Convener:** Anton Ilderton The Worldline Formalism and the Gauge/Gravity Correspondence 09:15-10:00 Speaker Adi Armoni 10:00 10:00 **Talk** Session Location: James Clerk Maxwell Building, Higgs Centre Seminar Room (4305), School of Physics and Astronomy University of Edinburgh James Clerk Maxwell Building Peter Guthrie Tait Road Edinburgh EH9 3FD Convener: Anton Ilderton Magnetic monopole pair production in strong magnetic fields 10:00-10:45 Speaker Arttu Rajantie 10:45 13:45 **Talk** Session Location: James Clerk Maxwell Building, Higgs Centre Seminar Room (4305), School of Physics and Astronomy University of Edinburgh James Clerk Maxwell Building Peter Guthrie Tait Road Edinburgh EH9 3FD Convener: Patrick Copinger 13:45-14:30 Worldline instantons for the momentum spectrum of strong-field-QED processes in space-time dependent fields Speaker **Greger Torgrimsson** 14:30 14:30 **Talk** Location: James Clerk Maxwell Building, Higgs Centre Seminar Room (4305), School of Physics and Astronomy University of Edinburgh James Clerk Maxwell Building Peter Guthrie Tait Road Edinburgh EH9 3FD Convener: Patrick Copinger 14:30-15:15 Boundary conditions and proper-time contours for worldline path integrals Speaker Karthik Rajeev 15:15

Wednesday 26 February



Thursday 27 February

09:15 **Talk: Plenary Address** Location: James Clerk Maxwell Building, Higgs Centre Seminar Room (4305), School of Physics and Astronomy University of Edinburgh James Clerk Maxwell Building Peter Guthrie Tait Road Edinburgh EH9 3FD **Convener:** James Edwards 09:15-10:00 Worldline approach to QED in external fields Speaker **Christian Schubert** 10:00 10:00 **Talk** Session Location: James Clerk Maxwell Building, Higgs Centre Seminar Room (4305), School of Physics and Astronomy University of Edinburgh James Clerk Maxwell Building Peter Guthrie Tait Road Edinburgh EH9 3FD Convener: Riccardo Gonzo 10:00-10:45 Classical worldlines from scattering amplitudes Speaker Dr Mao Zeng 10:45 11:15 **Talk** Session Location: James Clerk Maxwell Building, Higgs Centre Seminar Room (4305), School of Physics and Astronomy University of Edinburgh James Clerk Maxwell Building Peter Guthrie Tait Road Edinburgh EH9 3FD Convener: Riccardo Gonzo 11:15-12:00 Tadpole contribution to magnetic photon-graviton conversion Speaker Naser Ahmadiniaz 12:00 14:15 Talk Session Location: James Clerk Maxwell Building, Higgs Centre Seminar Room (4305), School of Physics and Astronomy University of Edinburgh James Clerk Maxwell Building Peter Guthrie Tait Road Edinburgh EH9 3FD Convener: Anton Ilderton Flying focus, self-duality and scattering Speaker Tim Adamo 15:00