

Session Program

4–8 May 2026



The banner features a blue background with white particle physics diagrams, including wavy lines and arrows. Two stylized human figures are shown in the foreground, one pointing towards the diagrams. A red triangle on the left contains the text 'MITP TOPICAL WORKSHOP'. On the right, the title 'Electroweak Corrections at Current and Future Accelerators' is displayed in white, followed by the dates 'May 4 – 8, 2026' and a globe icon with the URL 'https://indico.mitp.uni-mainz.de/event/438/'. The MITP logo and 'Mainz Institute for Theoretical Physics' are in the bottom right corner. A small copyright notice '© James O'Brien/Quanta Magazine' is in the bottom left corner.

MITP
TOPICAL
WORKSHOP

Electroweak Corrections at
Current and Future
Accelerators

May 4 – 8, 2026
<https://indico.mitp.uni-mainz.de/event/438/>

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Electroweak Corrections at Current and Future Accelerators

Low-energy electron scattering

Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430
Staudingerweg 9 / 2nd floor, 55128 Mainz

Thursday 7 May

09:30

Low-energy electron scattering

Session |

Location: Mainz Institute for Theoretical Physics, Johannes Gutenberg University, 02.430, Staudingerweg 9 / 2nd floor, 55128 Mainz

Convener: Hubert Spiesberger

09:30-09:50

Parity-violating e-e scattering: Experimental status and prospects

Speaker

Krishna Kumar

09:55-10:25

Low-energy e-e/e-p/e-N scattering -- theory overview

Speaker

Mikhail Gorshteyn

10:30

11:00

Low-energy electron scattering

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11:00-11:15

NNLO EW corrections to e-e scattering

Speaker

Dr Lisong Chen

11:20-11:40

McMule feels weak -- EW corrections for MOLLER (& P2)

Speakers

Ms Sophie Kollatzsch, Mr David Radic

11:45-12:00

Discussion

12:00

14:00

Low-energy electron scattering

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Convener: Mikhail Gorshteyn

14:00-14:20

Parity-violating e-p and e-N scattering: Experimental status and prospects

Speaker

Dr Sebastian Baunack

14:25-14:40

Hadronic running of the electromagnetic coupling from first principles

Speaker

Dr Alessandro Conigli

14:45-15:00

Discussion

15:00

15:30

Low-energy electron scattering

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Convener: Mikhail Gorshteyn

15:30-15:45

Electroweak radiative corrections to e-N scattering for MESA

Speaker
Prof. Charles J. Horowitz

15:50-16:30 **Discussion**

16:30