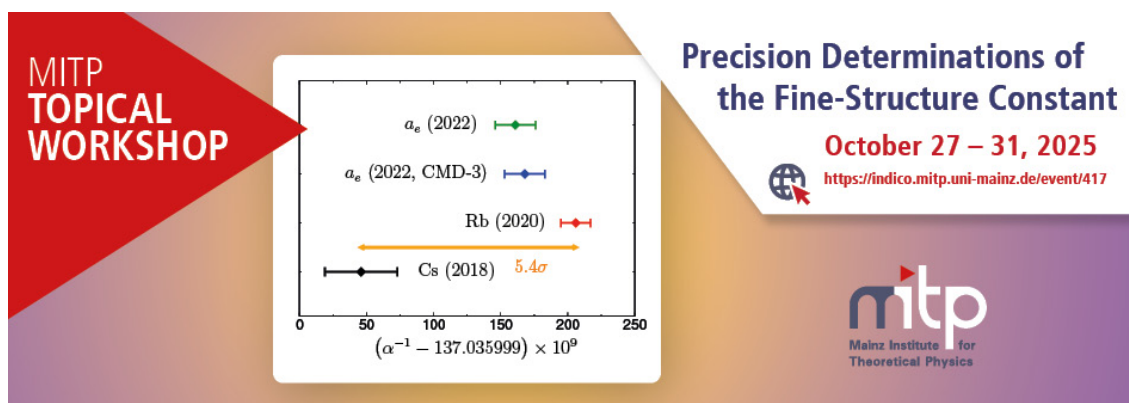


Session Program

27–31 Oct 2025



Precision Determinations of the Fine-structure Constant

Morning Sessions

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

Monday 27 October

10:15

Morning Sessions: Recent progress toward a new measurement of rubidium recoil using atom interferometry

Session |

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

|

Convener: Saïda Guellati-Khelifa

11:15

11:45

Morning Sessions: Clock atom interferometry for determining the fine-structure constant

Session |

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

|

Convener: Jesse Schelfhout

12:45

Tuesday 28 October

10:00

Morning Sessions: The calculation of the electron $g-2$ at 4 loops and the perspectives for 5 loops

Session |

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

|

Convener: Dr Stefano Laporta

11:00

11:30

Morning Sessions: 10-th order QED calculation of the electron $g-2$: special issues

Session |

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

|

Convener: Dr Sergey Volkov

12:30

Wednesday 29 October

10:00

Morning Sessions: Prospects of a new determination of alpha in muonium

Session |

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

|

Convener: Paolo Crivelli

11:00

11:30

Morning Sessions: Improved bound-electron g-factor theory after completion of two-loop self-energy calculations

Session |

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

|

Convener: Dr Bastian Sikora

12:30

Thursday 30 October

10:00

Morning Sessions: Nuclear radii for precision physics

Session |

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

Convener: Prof. Randolph Pohl

11:00

11:30

Morning Sessions: The MuSEUM experiment at J-PARC

Session |

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

Convener: Patrick Strasser

12:30

Friday 31 October

10:00

Morning Sessions: TBD

Session |

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

|

Convener: Paride Paradisi

11:00

11:30

Morning Sessions: On the Possibility of Determining α from the Muon Sector at J-PARC

Session |

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

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Convener: Dr Shusei Kamioka

12:30