

Session Program

2-7 Jul 2023

Searching for New Physics at the Quantum Technology Frontier

Interferometry

Congressi Stefano Franscini (CSF), Ascona (Ticino), Switzerland
Monte Verità Strada Collina 84 CH-6612 Ascona (Ticino)

Tuesday 4 July

08:20

Interferometry

Session |

Location: Congressi Stefano Franscini (CSF), Ascona (Ticino), Switzerland, Monte Verità Strada Collina 84 CH-6612

Co-organisers: Anna Soter

08:20–08:25

Session's intro

Speaker

Anna Soter

08:25–09:00

Precise determination of the fine structure constant and test of QED

Speaker

Pierre Cladé

09:00–09:35

Search for additional fundamental interactions using whispering gallery quantum states of neutral particles.

Speaker

Prof. Valery Nesvizhevsky

09:35–10:10

Exploring dark matter and quantum space-time fluctuations through precision laser interferometry

Speaker

Aldo Ejlli

10:10–10:40

Coffee break

10:40–11:15

Techniques for testing of antimatter gravity by Rydberg-positronium interferometry

Speaker

Stephen Hogan

11:15–11:50

Dark matter searches with AION-10 and beyond

Speaker

Dr Christopher McCabe

11:50–12:15

Measuring the Charge of the Neutron using a Time-Of-Flight Neutron Grating Interferometer

Speaker

Philipp Heil

12:15