

## **Session Program**

**2-7 Jul 2023**

# **Searching for New Physics at the Quantum Technology Frontier**

## ***Quantum Sensors II***

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

Thursday 6 July

08:25

Quantum Sensors II

**Session** |  
**Location:** Congressi Stefano Franscini (CSF), Ascona (Ticino), Switzerland, Monte Verità Strada Collina 84 CH-6612 Ascona (Ticino) |  
**Convener:** Michael Doser

08:25–08:30	<b>Session's intro</b>
<b>Speaker</b> Michael Doser	
08:30–08:55	<b>Spin- and momentum-correlated atom pairs mediated by photon exchange</b>
<b>Speaker</b> Nicola Alexandra Reiter	
08:55–09:20	<b>Emergent pumping in a non-hermitian system</b>
<b>Speaker</b> Simon Hertlein	
09:20–09:45	<b>Low-threshold detectors for dilution refrigerators</b>
<b>Speaker</b> Damian Goeldi	
09:45–10:10	<b>Quantum control of a levitated nanoparticle's motion to explore novel physics at large scales</b>
<b>Speaker</b> Massimiliano Rossi	
10:10–10:40	<b>Coffee break</b>
10:40–11:15	<b>Neutron Beam EDM and Axion-Like Dark Matter</b>
<b>Speakers</b> Florian Michael Piegsa, Ivo Schulthess	
11:15–11:50	<b>Frequency-based decay electron spectroscopy to measure neutrino mass and exotic interactions</b>
<b>Speaker</b> Martin Fertl	
11:50–12:15	<b>Einstein-Podolsky-Rosen experiment with two Bose-Einstein condensates</b>
<b>Speaker</b> Tilman Zibold	

12:15