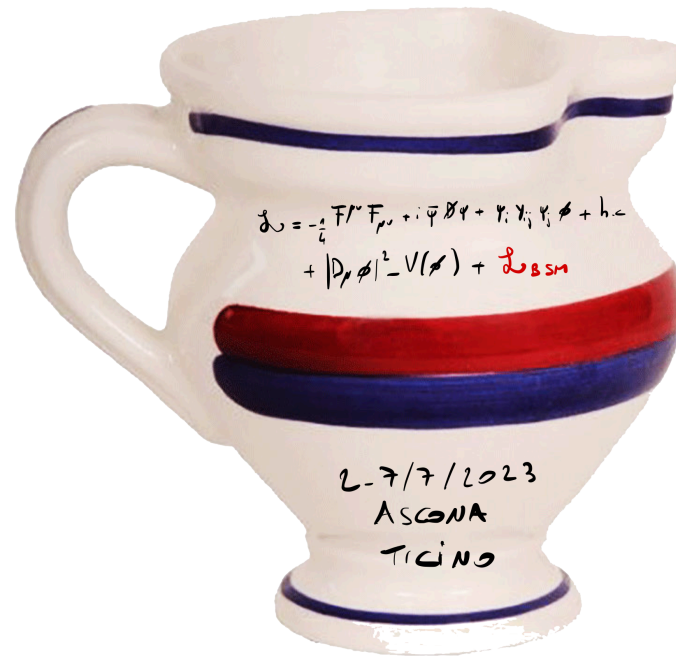


# Searching for New Physics at the Quantum Technology Frontier



# Program

## Monday, 3 July 2023

Atoms and Exotic Atoms I (08:30 - 12:15)

Lunch (12:30 - 14:00)

Electric Dipole Moments (EDMs) (16:00 - 19:10)

Dinner (19:30 - 21:00)

Poster Session 1 (21:00 - 23:00)

## Thursday, 6 July 2023

Quantum Sensors II (08:25 - 12:15)

Lunch (12:30 - 14:00)

Ions (16:00 - 19:10)

Dinner (19:30 - 21:00)

## Tuesday, 4 July 2023

Interferometry (08:20 - 12:15)

Lunch (12:30 - 14:00)

Molecules (16:35 - 19:10)

Dinner (19:30 - 21:00)

Poster Session 2 (21:00 - 23:00)

## Friday, 7 July 2023

Atoms and Exotic Atoms II (08:25 - 12:15)

Lunch (12:30 - 14:05)

## Wednesday, 5 July 2023

Quantum Sensors (08:20 - 12:15)

Lunch (12:30 - 14:00)

Excursion (14:00 - 19:00)

Conference dinner (19:00 - 23:00)

■ [Full program in .pdf version](#)

<https://indico.cern.ch/event/1198655/timetable/#all.detailed>

# Excursion Cardada & dinner in Grotto Scalinata (Tenero) - Wednesday 05/07/2023



<https://www.cardada.ch/en>

- 14:00 Bus: Monte Verita' -> Orselina
- 14:30 Cable car: Orselina - Cardada
- Option 1) Hike to Cimetta and back:  
[5 km, approx 1h 45 min](#)  
17:30 back to Orselina by cable car  
18:00 bus to grotto Scalinata
- Option 2) Hike Cardada- Cimetta-Tenero (grotto Scalinata): [10 km, approx 3 hours](#)
- Option 3) No hike same program as option 1) but Cardada- Cimetta with the chair lift
- 19:00 Cena Grotto scalinata Tenero

- Please subscribe via indico (you will receive an invitation today after lunch)

# Today's Session

## Monday, 3 July 2023

### Atoms and Exotic Atoms I (08:30 - 12:15)

-Conveners: Paolo Crivelli

time	title	presenter
08:30	Session's intro	CRIVELLI, Paolo
08:35	Challenging QED with atomic Hydrogen	UDEM, Thomas
09:10	Precision benchmarks for nuclear and atomic physics from laser spectroscopy of muonic atoms	ANTOGNINI, Aldo
09:45	Precision measurements of $n\text{k}\$$ -- 2s transition frequencies in the hydrogen atom	SCHEIDEGGER, Simon
10:10	Coffee break	
10:40	Muonic vs. electronic dark forces	PESET, Clara
11:05	Towards Improving the Precision of the Lamb Shift Measurement in Muonium	JANKA, Gianluca
11:30	Testing fundamental interactions with the hyperfine splitting in light atomic systems	PACHUCKI, Krzysztof