



SEMINARI DEI DOTTORANDI

Dipartimento di Fisica, Aula 101

Mercoledì 17 Settembre 2025

First morning session - Chairmen: Alice Viola - Davide Cugini

9.00-9.30	Andrea Pizzamiglio	<i>Classification of Quantum Cellular Automata</i>
9.30-10.00	Cristina Pezzi	<i>Smart BNCT Planning: When Artificial Intelligence Meets Radiobiology</i>
10.00-10.30	Beatrice Costeri	<i>Bouncing off the wall: quantum fields at the boundary</i>
10.30-10.45	<i>Break</i>	

Second morning session - Chairmen: Noemi Tagliavacche - Diego Maragnano

10.45-11.15	Emanuele Brusaschi	<i>Gaussian boson sampling in frequency and time bins</i>
11.15-11.45	Lorenzo Perruccio	<i>A laser-written directional coupler resonator</i>
11.45-12.15	Tommaso Cresta	<i>Precision measurements in High Energy Physics</i>

First afternoon session - Chairmen: Barbara Marcaccio - Davide Rolino

14.30-15.00	Andrea Schiavi	<i>The Game of Hadron Physics</i>
15.00-15.30	Davide Rinaldi	<i>Quantum batteries not included in the package</i>
15.30-16.00	Chiara Delledonne	<i>Discriminating superimposed historical inks exploiting a non-invasive and multi-analytical strategy</i>
16.00-16.15	<i>Break</i>	

Second afternoon session - Chairmen: Agnese Robustelli Test - Andrea Pareti

16.15-16.45	Luca Polano	<i>On the way to transversity: A PhD Triathlon</i>
16.45-17.15	Alessio Alvaro	<i>Peering into the proton: insights from theory</i>
17.15-17.45	Alessandro Somenzi	<i>Combining Carbon Ions radiotherapy and Boron Neutron Capture Therapy: in vitro and in silico preliminary studies</i>



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Giovedì 18 Settembre 2025

First morning session - Chairmen: Francesco Ghisoni - Marcello Bacchi

9.00-9.30	Alice Casali	<i>For a safer Hadrontherapy</i>
9.30-10.00	Lorenzo Marti	<i>Exploring diffusion mechanisms and energetics of battery materials</i>
10.00-10.30	Francesco Pio Ucci	<i>Precision QED tests at present and future e^+e^- colliders</i>
10.30-10.45	<i>Break</i>	

Second morning session - Chairmen: Alessia Stefano - Lorenzo Siro Trezzini

10.45-11.15	Saverio Rota	<i>A Quantum Cellular Automata framework for interacting quantum fields</i>
11.15-11:45	Antonio Mazzarone	<i>Focusing Delivery Schemes: A comparative analysis for Extreme UltraViolet Ultrafast tabletop ptychography</i>
11:45-12:15	Emanuele Tumbiolo	<i>Shake it until you make it: driving precision in thermometry</i>

First afternoon session - Chairmen: Federica De Domenico - Sara Congia

14:30-15:00	Nicola Manenti	<i>0vbb decay searches with the CUORE and CUPID experiments</i>
15:00-15:30	Marco Ghilardi	<i>The Pion form factor through radiative return method</i>
15:30-16:00	Riccardo Scaglioni	<i>ATLAS Trigger and Data Acquisition in the High Luminosity LHC era</i>
16.00-16.15	<i>Break</i>	

Second afternoon session - Chairmen: Angela Rosy Morgillo - Carmelo Grova

16:15-16:45	Matteo Brunoldi	<i>Picosec: toward a greener detector for the future</i>
16.45-17.15	Cecilia Riani	<i>Exploring RNA-seq as a high-throughput approach: Principles, Techniques, and Strategies for Data Analysis</i>
17:15-17:45	Ezequiel Canay	<i>Computational and experimental studies for space radiation and hadrontherapy</i>