



PhD in Metrology XXXVIII Cycle Presentation

04/05/2022, 2:30 pm



Politecnico
di Torino



Zoom
Meeting
urly.it/3n4m7



PhD Course in Metrology XXXVIII Cycle Presentation May 4, 2022

PROGRAMME

- 2:30** Introduction
Pietro Asinari, INRIM Scientific Director
- 2:35** Presentation of the PhD Course in Metrology
Oriano Bottauscio, INRIM Researcher and Deputy Coordinator of the PhD Course in Metrology
- 2:45 - 3:15** **Research topics proposed by INRIM Researchers**
- Andrea Sosso**
Quantum volt
- Marco Pisani**
The realisation of the SI mass unit through the Planck constant (Planckilogram)
- Alessandro Germak**
Ultra-high Precision Absolute Earth Gravity Measurements
- Marco Genovese**
Optical Quantum Technologies
- Leonardo Mortati**
Measurements of microplastics in environmental samples through advanced and standard optical microscopy techniques
- 3:15 - 3:30** **Students' stories from past editions of the PhD Course in Metrology**
- 3:30 - 4:00** **Research topics proposed by INRIM Researchers**
- Filippo Levi**
Transportable Yb Optical Clock
- Luca Oberto**
Design and characterisation of a measurement system for scattering parameters at cryogenic temperatures for the characterisation of microwave quantum devices
- Emanuele Enrico**
Quantum correlations fingerprint of microwave signals for illumination protocols beating classical limits – Quantum Radar
- Marco Coisson**
Measurement of dynamic magnetic properties in 3D printed magnetic materials for energy applications
- Gianni Durando (in collaboration with Istituto Neurologico Carlo Besta)**
Ultrasound mediated neuromodulation: a metrologic approach
- 4:00 - 4:15** **Questions & Answers**