

**Laurea Magistrale in FISICA**

(DM 270/04)

**22 luglio 2022**

- *Hunting  $X17$  using resonant production at PADME* - Ricerca della particella  $X17$  utilizzando produzione risonante a PADME → Marco MANCINI

**23 settembre 2022**

- *Nessun laureato*

**25 ottobre 2022**

- *NCT-WES: a neutron spectrometer for Boron Neutron Capture Therapy* → Giorgia ABBATINI
- *High elevation neutron measurements with Bonner Spheres* → Andrea APOLLONIO
- *Physical and star-spot properties of the HATS-2 exoplanetary system from multi-colorphotometry* → Francesco BIAGIOTTI
- *Ruolo delle fluttuazioni della corrente nella dinamica lineare di una popolazione di neuroni* → Lorenzo BUFFA
- *Analisi di segnali da rivelatori a scintillazione: discriminazione neutroni-gamma e irraggiamento dell'elettronica* → Virginia PIETROSANTI
- *The habitability of icy worlds* → Elisa DI MICO
- *Inclusive hadronic tau-decays: a first-principles lattice calculation* → Antonio EVANGELISTA
- *Reconstructing the Universe expansion history with low-redshift observations: a model-independent assessment of data consistency and a test of some of the assumptions behind the standard model of Cosmology* → Arianna FAVALE
- *Studies of an X rays source based on betatron radiation* → Francesco DE MURTAS
- *Thermal effects in wavefront sensing for aberration control in future gravitational wave detectors* → Pier Paolo PALMA
- *Preliminary study of the infrared wide angle vision system as DTT's first wall diagnostics* → Elena SIDEROTTI

**28 ottobre 2022**

- *Probing the central engine of the most luminous and massive quasar at the Epoch of Reionization* → Simone MESTICI
- *A Machine Learning algorithm for Space Weather Events forecasting* → Samuele PESACANE
- *Analysis and Provision to ESA/NEOCC of NEOs' physical properties* → Francesco Pio RAMUNNO
- *AI techniques determining User interest in data downloads on an ESA Copernicus Data Information and Access Service* → Alessio ROSCIOLI

## 16 dicembre 2022

- *Analysis of Reddit conversation data in relation to meme stock market movements* → Gioacchino MAURI
- *A novel approach based on machine learning techniques for data analysis in hadronic physics* → Tommaso VITTORINI

## 24 febbraio 2023

- *Evaluation of the  $z^2/\beta^2$  factor using LIDAL detector on board the International Space Station* → Virginia BORETTI
- *Analisi di fenomeni collettivi in emulsioni concentrate tramite Graph Neural Networks* → Giulia DI PALMA

## 26 maggio 2023

- *Teoria di campo conforme e stati irregolari* → Andrea D'APRILE
- *Estrazione dei parametri  $\lambda$  e massa-RGI nel funzionale di Schrodinger* → Gianmarco DELL'UOMO
- *Study of the fragmentation of He-4 on C-12 with the FOOT detector for hadrontherapy applications* → Miriam MASSA
- *Exploring the multiscale nature of interplanetary magnetic field using Recurrence Quantification Analysis* → Manuel LACAL
- *Data Analysis of the LIDAL detector on board the International Space Station, Relative Biological Effectiveness and Radiation Quality Factor* → Luca LUNATI
- *Complex Systems and Computational Paradigms: Classical and Quantum approaches* → Cosmin MARIN
- *An LSTM-based model for sentiment classification in financial statements* → Daniele PICANO

## 09 giugno 2023 (Straordinaria)

- *Modeling of thermally-induced optical aberration in the current and future GW detectors* → Matteo IANNI
- *Tecniche di Assimilazione Dati per un Modello a Shell della Turbolenza* → Francesco FOSSELLA
- *Black Hole and Fuzzball Perturbation Theory: Quasi Normal Modes, Super-radiance and Charge Instability* → Carlo DI BENEDETTO
- *Earth's climate response to the solar Maunder Minimum at global and regional scales* → Lorenza LUCAFERRI
- *Neutron imaging for the catalysed hydrogen conversion in metal organic frameworks* → Margherita SIMONI