# UNIVERSITÀ DEGLI STUDI DI MILANO
## DIPARTIMENTO DI FISICA

**COMPETITION FOR ADMISSION TO DOCTORATE SCHOOL IN PHYSICS, ASTROPHYSICS AND APPLIED PHYSICS XXXVI$^{TH}$ CYCLE - A.Y. 2020/2021**

Evaluation criteria (curriculum): up to 20 points

a. Academic career: up to 16 points
The overall university career is assessed, taking into account both the Bachelor and Master degree programs, the presence of honors and the conditions under which each candidate earned their qualifications. For foreign candidates, judgment criteria are applied coherently with the academic systems where they gained their qualifications.

b. Publications: up to 2 points

c. Research and other titles and experiences: up to 2 points

Evaluation criteria (Research Project): up to 10 points

The submitted project will be evaluated considering its clarity and logical internal coherence, also with reference to the state of the art, and the relevance of the candidate contribution.

## EVALUATION OF DOCUMENTS SUBMITTED

| Candidate | Project | Curriculum | Total | Result |
|---|---|---|---|---|
| ABDI ZEINAB | 2.0 | 5.0 | 7.0 | not admitted for insufficient score |
| ABUJAMI MOHAMMED | 7.0 | 13.0 | 20.0 | admitted to the oral exam |
| ACHILLI BEATRICE | 7.0 | 15.0 | 22.0 | admitted to the oral exam |
| ALBRIGI TOMMASO | 7.0 | 10.0 | 17.0 | admitted to the oral exam |
| ANGELINI DAVIDE | 4.0 | 5.0 | 9.0 | not admitted for insufficient score |
| APOSTOLI CHRISTIAN | 7.0 | 19.0 | 26.0 | admitted to the oral exam |
| ARDESTANI SEYED MASOOD | 5.0 | 7.0 | 12.0 | not admitted for insufficient score |
| ARIOSTO SEBASTIANO | 6.0 | 11.0 | 17.0 | admitted to the oral exam |
| ARMANDO GIOVANNI | 7.0 | 10.0 | 17.0 | admitted to the oral exam |
| ASQUINI LAURA | 6.0 | 11.0 | 17.0 | admitted to the oral exam |
| AVANZI ELISABETTA | 7.0 | 5.0 | 12.0 | not admitted for insufficient score |
| AZIZI JAFAR | 5.0 | 9.0 | 14.0 | not admitted for insufficient score |
| BARA SILVIA | 7.0 | 16.0 | 23.0 | admitted to the oral exam |
| BELKHADRIA ZAKARIA | 7.0 | 6.0 | 13.0 | not admitted for insufficient score |
| BERNASCONI KEVIN GABRIELE | 7.0 | 15.0 | 22.0 | admitted to the oral exam |
| BERTOLINI ERICA | 7.0 | 15.0 | 22.0 | admitted to the oral exam |
| BERTUCCI FRANCESCO | 7.0 | 14.0 | 21.0 | admitted to the oral exam |
| BOLDRINI GIACOMO | 7.0 | 15.0 | 22.0 | admitted to the oral exam |
| BOLLATI FRANCESCO | 7.0 | 15.0 | 22.0 | admitted to the oral exam |
| BRIZIOLI MATTEO | 7.0 | 17.0 | 24.0 | admitted to the oral exam |
| BROGGI LUCA | 7.0 | 16.0 | 23.0 | admitted to the oral exam |
| CABINI RAFFAELLA FIAMMA | 7.0 | 13.0 | 20.0 | admitted to the oral exam |
| CAGLIARI MARINA SILVIA | 8.0 | 16.0 | 24.0 | admitted to the oral exam |
| CALVI GIACOMO | 7.0 | 13.0 | 20.0 | admitted to the oral exam |
| CAPECCI CHIARA | 7.0 | 12.0 | 19.0 | admitted to the oral exam |
| CAPPENBERG FEDERICO | 6.0 | 7.0 | 13.0 | not admitted for insufficient score |
| CARNELLI ALBERTO | 6.0 | 5.0 | 11.0 | not admitted for insufficient score |
| CARRARA PIETRO | 7.0 | 15.2 | 22.2 | admitted to the oral exam |
| CEPPI SIMONE | 7.0 | 10.0 | 17.0 | admitted to the oral exam |
| CERVATO BEATRICE | 7.0 | 10.0 | 17.0 | admitted to the oral exam |

| Candidate | Project | Curriculum | Total | Result |
|---|---|---|---|---|
| CHANDRAN ANJU | 5.0 | 10.0 | 15.0 | admitted to the oral exam |
| CINNIRELLA EMMANUELE | 6.0 | 11.0 | 17.0 | admitted to the oral exam |
| CORLI SEBASTIANO | 7.0 | 7.0 | 14.0 | not admitted for insufficient score |
| CORSO ROBERTO | 6.0 | 14.0 | 20.0 | admitted to the oral exam |
| CROVA FEDERICA | 7.0 | 19.0 | 26.0 | admitted to the oral exam |
| CUOMO MASSIMO | 5.0 | 5.0 | 10.0 | not admitted for insufficient score |
| CURONE PIETRO | 7.0 | 14.0 | 21.0 | admitted to the oral exam |
| D'ADDONA MAURIZIO | 7.0 | 12.0 | 19.0 | admitted to the oral exam |
| DEL PIO CLARA LAVINIA | 7.0 | 16.0 | 23.0 | admitted to the oral exam |
| DEMELA ALESSANDRO | 7.0 | 13.4 | 20.4 | admitted to the oral exam |
| DIANI MARCO | 7.0 | 13.0 | 20.0 | admitted to the oral exam |
| DITRANI FABIO ROSARIO | 7.0 | 9.0 | 16.0 | not admitted for insufficient score |
| DUPLETSA ULYANA | 8.0 | 14.0 | 22.0 | admitted to the oral exam |
| EL CHEIKH RAWYA | 1.0 | 5.0 | 6.0 | not admitted for insufficient score |
| ELIA VALERIO | 7.0 | 10.0 | 17.0 | admitted to the oral exam |
| ESLAMI MOHAMMAD | 7.0 | 7.0 | 14.0 | not admitted for insufficient score |
| FRANCO ANTONIO | 7.0 | 9.0 | 16.0 | not admitted for insufficient score |
| FRIGERIO MASSIMO | 7.0 | 19.0 | 26.0 | admitted to the oral exam |
| GIAIMO ANDREA | 7.0 | 12.0 | 19.0 | admitted to the oral exam |
| GIULIANI LUCA | 7.0 | 10.0 | 17.0 | admitted to the oral exam |
| GRANATA GIOVANNI | 8.0 | 18.0 | 26.0 | admitted to the oral exam |
| GUERINI ROCCO GIORGIO | 7.0 | 14.6 | 21.6 | admitted to the oral exam |
| GUPTA HARSH | 4.0 | 12.0 | 16.0 | not admitted for insufficient score |
| HASHEMINASAB FATEMEH | 7.0 | 11.0 | 18.0 | admitted to the oral exam |
| HELMY SALLY | 7.0 | 15.0 | 22.0 | admitted to the oral exam |
| HUSSAIN FIDA | 4.0 | 7.0 | 11.0 | not admitted for insufficient score |
| IACOBACCI LORENZO | 7.0 | 9.0 | 16.0 | not admitted for insufficient score |
| JELMINI BEATRICE | 7.0 | 16.0 | 23.0 | admitted to the oral exam |
| KHAN MUHAMMAD INAM | 5.0 | 6.2 | 11.2 | not admitted for insufficient score |
| LAMBERTI MARIO | 5.0 | 8.0 | 13.0 | not admitted for insufficient score |
| LAMBRI NICOLA | 7.0 | 12.0 | 19.0 | admitted to the oral exam |
| LONGARINI CRISTIANO | 7.0 | 13.0 | 20.0 | admitted to the oral exam |
| M ANJANA | 6.0 | 13.0 | 19.0 | admitted to the oral exam |
| MAGRIN MAFFEI RICCARDO | 7.0 | 14.0 | 21.0 | admitted to the oral exam |
| MAINO ANDREA | 5.0 | 5.0 | 10.0 | not admitted for insufficient score |
| MANCO GIULIA | 7.0 | 12.0 | 19.0 | admitted to the oral exam |
| MANDINI FEDERICO | 5.0 | 9.0 | 14.0 | not admitted for insufficient score |
| MANICCIA GIULIA | 7.0 | 14.0 | 21.0 | admitted to the oral exam |
| MANZAN ELENIA | 7.0 | 16.0 | 23.0 | admitted to the oral exam |
| MARFORI LORENZO | 7.0 | 15.0 | 22.0 | admitted to the oral exam |
| MARINELLI GIULIA | 7.0 | 11.0 | 18.0 | admitted to the oral exam |
| MARINO FRANCESCO | 8.0 | 17.0 | 25.0 | admitted to the oral exam |
| MARNI STEFANO | 7.0 | 10.0 | 17.0 | admitted to the oral exam |
| MARTINO LUIGI | 7.0 | 5.0 | 12.0 | not admitted for insufficient score |
| MELADA JACOPO | 7.0 | 14.0 | 21.0 | admitted to the oral exam |
| MIGLIORATI STEFANO | 7.0 | 11.0 | 18.0 | admitted to the oral exam |
| MIRARCHI GIOVANNI | 7.0 | 14.0 | 21.0 | admitted to the oral exam |
| MIRZA BAIG | 4.0 | 7.5 | 11.5 | not admitted for insufficient score |
| MONTEVERDI ALESSANDRO | 7.0 | 9.0 | 16.0 | not admitted for insufficient score |
| N SAI KRISHNA | 5.0 | 8.0 | 13.0 | not admitted for insufficient score |
| NAPONIELLO LUCA | 7.0 | 7.0 | 14.0 | not admitted for insufficient score |
| NAVA JACOPO | 7.0 | 13.0 | 20.0 | admitted to the oral exam |
| NAVIGLIO MANUEL | 7.0 | 8.0 | 15.0 | not admitted for insufficient score |
| NUTRICATI LUCA ARMANDO | 7.0 | 10.0 | 17.0 | admitted to the oral exam |
| OCAMPO INDIRA | 5.0 | 11.0 | 16.0 | admitted to the oral exam |
| PARIDEH ABDULRAHMAN | - | 6.0 | 6.0 | not admitted for missing documentation |
| PASINO ELEONORA | 7.0 | 14.0 | 21.0 | admitted to the oral exam |
| PELICCI LUCA | 7.0 | 12.2 | 19.2 | admitted to the oral exam |

| Candidate | Project | Curriculum | Total | Result |
|---|---|---|---|---|
| PICCOLINI MATTEO | 7.0 | 5.0 | 12.0 | not admitted for insufficient score |
| PINOLINI BIANCA SOFIA | 7.0 | 15.0 | 22.0 | admitted to the oral exam |
| POGLIANI ANDREA | 7.0 | 14.0 | 21.0 | admitted to the oral exam |
| PRADHAN SHREETAMA | 4.0 | 8.0 | 12.0 | not admitted for insufficient score |
| REHMAN ABDUL | 4.0 | 8.0 | 12.0 | not admitted for insufficient score |
| REHO RICCARDO | 7.0 | 12.0 | 19.0 | admitted to the oral exam |
| RESTELLI SIMONE | 6.0 | 9.0 | 15.0 | not admitted for insufficient score |
| ROSSI VALENTINO | 7.0 | 14.0 | 21.0 | admitted to the oral exam |
| ROTA ALESSIA ANNIE | 8.0 | 13.2 | 21.2 | admitted to the oral exam |
| ROTA SIMONE | 8.0 | 16.0 | 24.0 | admitted to the oral exam |
| SALEH MIRIAM | 6.0 | 13.0 | 19.0 | admitted to the oral exam |
| SALERNO GIANLUIGI | 6.0 | 10.0 | 16.0 | admitted to the oral exam |
| SAURO DARIO | 6.0 | 11.0 | 17.0 | admitted to the oral exam |
| SCALCINATI LORENZO | 7.0 | 12.0 | 19.0 | admitted to the oral exam |
| SCALERA ROBERTO | 7.0 | 6.0 | 13.0 | not admitted for insufficient score |
| SCHUHMACHER SEBASTIAN | 4.0 | 9.0 | 13.0 | not admitted for insufficient score |
| SEGATI ALESSIA | 7.0 | 12.0 | 19.0 | admitted to the oral exam |
| SERRANI MATTIA | 6.0 | 8.0 | 14.0 | not admitted for insufficient score |
| SILVETTI MARTINO | 6.0 | 8.0 | 14.0 | not admitted for insufficient score |
| TERRANOVA DIEGO | - | 9.0 | 9.0 | not admitted for missing documentation |
| TORTORELLI NAZARENA | 5.0 | 5.2 | 10.2 | not admitted for insufficient score |
| TREVISAN ANDREA | 7.0 | 16.0 | 23.0 | admitted to the oral exam |
| TUFINO EUGENIO | 4.0 | 11.0 | 15.0 | not admitted for insufficient score |
| UBOLDI LORENZO | 7.0 | 14.0 | 21.0 | admitted to the oral exam |
| USSEGLIO DAVIDE | 7.0 | 10.0 | 17.0 | admitted to the oral exam |
| VIALE ILARIA | 7.0 | 15.2 | 22.2 | admitted to the oral exam |
| VICEDOMINI MARCO | 7.0 | 8.0 | 15.0 | not admitted for insufficient score |
| VINELLI GIUSEPPE | 6.0 | 7.0 | 13.0 | not admitted for insufficient score |
| ZAGHET SIMONE | 7.0 | 10.0 | 17.0 | admitted to the oral exam |
| ZAHOOR RIZWAN | 4.0 | 7.0 | 11.0 | not admitted for insufficient score |
| ZANCHI DENNY | 7.0 | 8.0 | 15.0 | not admitted for insufficient score |

to be admitted to interview, candidates must obtain a minimum of 10 points in the curriculum and a minimum of 5 points in the research project.

## CALENDAR OF ORAL EXAMINATIONS

The interviews will take place on the platform ZOOM by the link https://us02web.zoom.us/j/7137606922?pwd=VkhsUDFGUmRyZWNzWlBodGxTR0QyZz09 .

NON-EU Candidates having (serious) problems with the date of interview are requested to communicate it before 30th July to phd@fisica.unimi.it or luigi.guzzo@unimi.it.

As specified in the guidelines, interviews will consist of a discussion on the candidates' research project and, more in general, on the scientific perspectives of their area of interest. In practice, candidates are expected to give a brief introduction to their project (3-5 minutes maximum, no slides), which will be followed by questions from the panel. Focus of the discussion will not be on the absolute scientific merit of the project, but rather on exploring the ability of the candidate to identify and discuss scientific issues with a critical approach.

*Thursday 30th July 2020 - from 9:00 to 12:30 of the Milan (Summer) time zone*

| N° | candidate | project title |
|---|---|---|
| 1 | D'ADDONA MAURIZIO | Anomaly Detection con tecniche di Machine e Deep Learning non supervisionato nelle moderne Sky Survey. |
| 2 | DEL PIO CLARA LAVINIA | Implementation of a new renormalization scheme for the direct determination of the weak mixing angle at the HL-LHC and study of its running with higher-order accuracy. |
| 3 | DEMELA ALESSANDRO | Measurement of Higgs boson mass from H → γγ events in pp collision at √s =14 TeV with the ATLAS detector. |
| 4 | DIANI MARCO | Effective coupling constants in N=6 superconformal Chern-Simons theory. |
| 5 | DUPLETSA ULYANA | Analysis of SMBH merger trees: pairing dynamics, accretion and triple interactions. |
| 6 | ELIA VALERIO | Impact of surface nanotopography on mechanotransductive and exo/endocytic processes during metastatic cancer cell migration. |
| 7 | FRIGERIO MASSIMO | Nonclassical steering and its applications. |
| 8 | GIAIMO ANDREA | Modified gravity: f(R) gravity theories. |
| 9 | GIULIANI LUCA | Elaborazione di metodi di riconoscimento automatico per sorgenti da erosita all-sky survey. |

## Thursday 30th July 2020 - from 14:00 to 15:30 of the Milan (Summer) time zone

| N° | candidate | project title |
|---|---|---|
| 1 | GRANATA GIOVANNI | Using strong lensing by galaxy clusters to test the ΛCDM model and explore the early Universe. |
| 2 | GUERINI ROCCO GIORGIO | Development of ultra-low thermal emittance photocathodes for future high- brightness electron sources. |
| 3 | JELMINI BEATRICE | Physics of neutrino oscillations at the JUNO experiment. |
| 4 | LAMBRI NICOLA | Optimized regression models for Parton Distribution Function determination using deep learning methods. |

## Friday 31st July 2020 - from 9:00 to 12:30 of the Milan (Summer) time zone

| N° | candidate | project title |
|---|---|---|
| 1 | LONGARINI CRISTIANO | Non-planar disc dynamics and its effects on star and planet formation. |
| 2 | MAGRIN MAFFEI RICCARDO | New Molecular NanoMagnets for High-Density Storage. |
| 3 | MANCO GIULIA | Study of the Higgs boson decay to pairs of heavy quarks. |
| 4 | MANICCIA GIULIA | Quantum gravity induced modifications on the spectrum of the inflaton field. |
| 5 | MANZAN ELENIA | A high-performance feedhorns coupled waveguide OMTs system for CMB B-mode polarization measurement above 100 GHz. |
| 6 | MARFORI LORENZO | Spatially resolved investigation of the role of cell membrane mechanosensitive ion channels in mechanotransduction processes through combined AFM spectroscopy and elettrophisiology methods. |
| 7 | MARINELLI GIULIA | Phenomenology of joint small- and large-x resummation. |
| 8 | MARINO FRANCESCO | A new approach for constructing nuclear energy functionals. |

## Friday 31st July 2020 - from 14:00 to 17:30 of the Milan (Summer) time zone

| N° | candidate | project title |
|---|---|---|
| 1 | MARNI STEFANO | Soluzioni di oligomeri di DNA con sequenza casuale: self-assembly e comportamento di fase. |
| 2 | MELADA JACOPO | Development of a smart sensor for the automatic identification of pigments and dyes in artwork through similarity learning. |
| 3 | MIGLIORATI STEFANO | Realization of a magnetic Aharonov-Bohm effect measurement with positron interferometry in the QUPLAS apparatus. |
| 4 | MIRARCHI GIOVANNI | Ruolo delle fluttuazioni di densità di carica nella determinazione dei fenomeni anomali nei superconduttori cuprati. |
| 5 | NAVA JACOPO | Towards a global analysis of Axion-Like Particles interactions. |
| 6 | NUTRICATI LUCA ARMANDO | MOTIVATION LETTER IN STRING THEORY |
| 7 | PASINO ELEONORA | Quantum interferometry and gravitation with antihydrogen in the ASACUSA experiment at CERN. |
| 8 | PELICCI LUCA | Misura del flusso di neutrini solari dal ciclo CNO con il rivelatore JUNO: studi di sensitività e preparazione dell'analisi. |

## Monday 3rd August 2020 - from 9:00 to 12:30 of the Milan (Summer) time zone

| N° | candidate | project title |
|---|---|---|
| 1 | PINOLINI BIANCA SOFIA | VBS analysis via Deep Learning with CMS Run2 and Run3 data. |
| 2 | POGLIANI ANDREA | Non-Equilibrium Fluctuations in a colloidal suspension on Earth and under microgravity conditions. |
| 3 | REHO RICCARDO | Studies in Conformal and Perturbative Field Theory, with application to particle physics, condensed matter and cosmology. |
| 4 | ROSSI VALENTINO | Characterization of LGAD sensors for the High Granularity Timing Detector in the ATLAS Phase-II upgrade project. |
| 5 | ROTA ALESSIA ANNIE | Constraining protoplanetary disc evolution in Taurus multiple systems with ALMA observations. |
| 6 | ROTA SIMONE | Struttura infrarossa e simmetrie asintotiche in teorie di gauge e gravità. |
| 7 | SALEH MIRIAM | Integrazione multidisciplinare di analisi fisiche applicate allo studio di provenienza di ossidiane italiane. |
| 8 | SALERNO GIANLUIGI | Fisica oltre il Modello Standard nei decadimenti antiB → Dτ antiντ e antiB → D*τ antiντ |

## Monday 3rd August 2020 - from 14:00 to 17:30 of the Milan (Summer) time zone

| N° | candidate | project title |
|---|---|---|
| 1 | SAURO DARIO | Dynamical appearence of the Planck scale. |
| 2 | SCALCINATI LORENZO | Studio delle proprietà statistiche di vortici ottici in campi speckle generati nei processi di scattering. |
| 3 | SEGATI ALESSIA | Holographic techniques: entropy of supersymmetric rotating black holes in AdS5 from partition functions of dual field theories. |
| 4 | TREVISAN ANDREA | Ruolo delle correlazioni nella dinamica di sistemi quantistici aperti. |
| 5 | UBOLDI LORENZO | Optimizing signal extraction for low energy events in DUNE. |
| 6 | USSEGLIO DAVIDE | Cosmological constrains on Modified Gravity Theory arises from Loop Quantum Cosmology. |
| 7 | VIALE ILARIA | Multi-wavelength and multi-messenger studies of extragalactic high-energy particle sources. |
| 8 | ZAGHET SIMONE | A step forward in modeling atomic nuclei beyond the mean field approximation. |

## Tuesday 4th August 2020 - from 9:00 to 12:30 of the Milan (Summer) time zone

| N° | candidate | project title |
|---|---|---|
| 1 | ACHILLI BEATRICE | Sondare la transizione di fase liquido-solido in liquidi atomici sovraraffreddati - Supportare l'analisi dati attraverso Simulazioni e Machine Learning. |
| 2 | ALBRIGI TOMMASO | W and Z bosons in the early Universe. |
| 3 | APOSTOLI CHRISTIAN | Real-time simulations of quantum soft-particles systems. |
| 4 | ARIOSTO SEBASTIANO | Meccanica statistica dell'apprendimento nelle deep neural network. |
| 5 | ARMANDO GIOVANNI | Factorisation and Resummation for Multi-Jet Production in the High Energy Limit at the LHC. |
| 6 | ASQUINI LAURA | Tecniche di pianificazione dinamica per la Time Domain Astronomy. |
| 7 | BARA SILVIA | Measurements of internal conversion electrons to study multipolarity of gamma transitions and nuclear structure. |
| 8 | BERNASCONI KEVIN GABRIELE | Misura della rottura di simmetria d'isospin nel nucleo 52Fe a temperatura finita. |

*Tuesday 4th August 2020 - from 14:00 to 17:30 of the Milan (Summer) time zone*

| N° | candidate | project title |
|---|---|---|
| 1 | BERTOLINI ERICA | The Physics is in the Boundary. |
| 2 | BERTUCCI FRANCESCO | Teorie di gravità quantistica e Swampland. |
| 3 | BOLDRINI GIACOMO | Search for resonant and nonresonant Higgs boson pair production in the bbqqlv final state in proton-proton collisions at s = 13/14 TeV. |
| 4 | BOLLATI FRANCESCO | Deeply learning protoplanetary discs. |
| 5 | BRIZIOLI MATTEO | Study of the rheological properties of bacterial biofilms growing under flow. |
| 6 | BROGGI LUCA | Time evolution of Vlasov-Poisson spherical systems and related entropy candidates. |
| 7 | CABINI RAFFAELLA FIAMMA | Application of Machine Learning techniques to Magnetic Resonance Fingerprinting. |
| 8 | CAGLIARI MARINA SILVIA | Caratterizzazione e sviluppo del metodo della spettroscopia media per la misurazione delle distribuzioni di redshift in contesto cosmologico. |

*Wednesday 5th August 2020 - from 9:00 to 12:30 of the Milan (Summer) time zone*

| N° | candidate | project title |
|---|---|---|
| 1 | ABUJAMI MOHAMMED | Radiomics and Machine learning analysis of Pulmonary diseases. |
| 2 | CHANDRAN ANJU | Theoretical Inversigation of how spin currents generated in one dimensional Quantum Spin Liquids can be effectively used in the field of spin injection. |
| 3 | HASHEMINASAB FATEMEH | Protostellar discs - Planet formation-Dustbusters- Dust and gas in planet forming discs-WP1-WP7. |
| 4 | HELMY SALLY | Biophysical Characterization of Extracellular Vesicles and their Cellular Internalization Mechanism. |
| 5 | M ANJANA | Study of Open Star Clusters. |
| 6 | OCAMPO INDIRA | Bounce Solutions in Brans Dicke Model. |
| 7 | CALVI GIACOMO | Feasibility study of an innovative approach for range monitoring in Hadrontherapy. |
| 8 | CAPECCI CHIARA | Quantum computation and electronic structure algorithms. |

*Wednesday 5th August 2020 - from 14:00 to 17:30 of the Milan (Summer) time zone*

| N° | candidate | project title |
|---|---|---|
| 1 | CARRARA PIETRO | Time-resolved fine analysis of low-energy excitations in magnetic and functional materials. |
| 2 | CEPPI SIMONE | Multiplicity signatures in accretion discs. |
| 3 | CERVATO BEATRICE | Sviluppo dei rivelatori a pixel per l'esperimento ATLAS a HL-LHC. |
| 4 | CINNIRELLA EMMANUELE GESUALDO | Studio di modelli di Ising con campi periodici nello spazio nell'ambito dell'Informazione Quantistica. |
| 5 | CORSO ROBERTO | Termodinamica quantistica in sistemi optomeccanici e stati quantistici per applicazioni di laboratorio. |
| 6 | CROVA FEDERICA | Investigating the role of atmospheric aerosol properties and sources on human health. |
| 7 | CURONE PIETRO | Protoplanetary discs around very low mass stars and brown dwarfs: study of their substructures and implications on planet formation. |

The President of the Committee
Prof. Luigi Guzzo