

**DOCTORAL PROGRAMME IN  
PHYSICS AND ASTRONOMY  
CYCLE XL  
Academic year 2024/2025**

**FINAL RANKINGS**

In accordance with the Decree signed by the Rector of the University of Florence

**POSITIONS AVAILABLE: 24**

Positions with scholarship: **22**

Positions without scholarship: **2** (*standard ranking*)

**RANKING - STANDARD POSITIONS**

**5** - University of Florence

**3** - Istituto Nazionale di Fisica Nucleare (INFN)

**RANKINGS - POSITIONS WITH SPECIFIC RESEARCH TOPICS**

**6** - Istituto Nazionale di Astrofisica - Osservatorio Astrofisico di Arcetri (INAF)

**1** - Istituto di Ricerca e di Studi in Ottica e Optometria (IRSOO)

**5** - Department of Physics and Astronomy

**1** - **NRRP** - European Union - NextGenerationEU

**1** - Department of Chemistry "Ugo Schiff"

**RANKING - STANDARD POSITIONS**

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	MARCHETTI	Andrea	111,1/120
2.	BORRELLO	Matteo	108,5/120
2.	CECI	Matteo	108,5/120
4.	MINIATI	Olimpia	108/120
5.	CALUSI	Gabriele	107,6/120
6.	GENSINI	Elena	106/120
7.	BUTI	Clarissa	105,6/120
8.	MUCCILLO	Luca	105/120
9.	PALLI	Francesco	104,5/120
10.	BRACCI	Caterina	104,1/120
11.	GERVANI	Lorenzo	103,5/120*
11.	ERCOLANO	Federica	103,5/120
13.	NARDINI	Dorotea	102,5/120

14.	DELLO RUSSO	Salvatore	102,4/120
15.	MANTEGAZZA	Fabio	102,3/120
16.	MAIO	Francesco	101,7/120
17.	BERNI	Leda	101,4/120
18.	BENFATTO	Lorenzo	101,3/120
19.	DEMATTEIS	Matilde	100,8/120*
19.	EPIFANI	Alberto	100,8/120
21.	MICHELAGNOLI	Marianna	100,7/120
22.	DAVOLIO	Fabio	100,5/120
23.	PACIFICO	Feliciano Giuseppe	100,3/120
24.	LO FRANCO	Simone	100,1/120
25.	PERI	Gianluca	100/120
26.	DI PIERO	Davide	99,5/120*
26.	CIATTAGLIA	Davide	99,5/120
28.	VERDIANI	Valentina	98,4/120*
28.	BALLONI	Giacomo	98,4/120*
28.	BONACCINI	Pier Paolo	98,4/120
31.	FIorentINO	Vincenzo	97,3/120
32.	CIANTI	Giulio	97/120
33.	MORESCHINI	Bianca	96,6/120
34.	KONGPRACHAYA	Chanasorn	94,8/120
35.	BOGLIONI	Luisa	94,7/120*
35.	MASCOLO	Ylenia	94,7/120
37.	GRANATA	Daniele	94,6/120
38.	MARTINELLI	Edoardo	94,1/120*
38.	PASSALEVA	Niccolò	94,1/120
40.	ROMANO	Nicolò	93,9/120*
40.	ZAMBONI	Marco	93,9/120
42.	ORIENTALE	Nicole	93,5/120
43.	FILIPPESCHI	Leonardo	93,3/120
44.	CUADRA	Francisco	93,2/120
45.	GALLI	Andrea	93/120
46.	NESTI	Giulio	92,5/120
47.	GIGLI	Diego	92,3/120*
47.	CABRAS	Chiara	92,3/120
49.	SANTARELLI	Lorenzo	91,6/120
50.	PARINI	Luca	91,3/120
51.	GIOVANNINI	Ilaria	91,1/120*
51.	BAINI	Leonardo	91,1/120
53.	PAULETTO	Tiziano	91/120
54.	VETRANO	Vito	90,5/120
55.	CROGNALE	Attilio	89,7/120
56.	CAFASSO	Dario	88,1/120
57.	CAMPANELLA GALANTI	Davide	87,6/120
58.	DE GIORGI	Giacomo	87,5/120
59.	MAULE	Riccardo	86,5/120
60.	ZANETTI	Francesca	85,2/120
61.	SARTORELLO	Simone	84,1/120

\*Precedes due to younger age

The following candidates are declared as winners:

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|-----|-----------|-----------|
| 1.  | MARCHETTI | Andrea    |
| 2.  | BORRELLO  | Matteo    |
| 2.  | CECI      | Matteo    |
| 4.  | MINIATI   | Olimpia   |
| 5.  | CALUSI    | Gabriele  |
| 6.  | GENSINI   | Elena     |
| 7.  | BUTI      | Clarissa  |
| 8.  | MUCCILLO  | Luca      |
| 9.  | PALLI     | Francesco |
| 10. | BRACCI    | Caterina  |

According to the order of the ranking list, positions without scholarship will be allocated only upon the acceptance of the scholarship by candidates from 1 up to 8 and unless they renounce the scholarship itself.

#### RANKINGS

##### POSITIONS WITH SPECIFIC RESEARCH TOPIC

Istituto Nazionale di Astrofisica - Osservatorio Astrofisico di Arcetri (INAF)

**Thematic:** "Search and characterization of binaries in star cluster with time-series photometry and large photometric, spectroscopic, and astrometric surveys"

	SURNAME	NAME	RESULT
1.	NEDHATH DIVAKARAN	Sneha	110,1/120
2.	REGGIANI	Elisabetta	108/120
3.	BERNI	Leda	102,8/120
4.	STEINBAUER	Laurenz Felix	102,7/120
5.	CUADRA	Francisco	97,9/120
6.	BOSE	Utsav	93,3/120

The candidate NEDHATH DIVAKARAN Sneha is declared as winner.

**Thematic:** "Stellar rotation as a means to study exotic stellar populations in star clusters"

	SURNAME	NAME	RESULT
1	REGGIANI	Elisabetta	107,2/120
2	SIMONATO	Filippo	106,4/120
3	NEDHATH DIVAKARAN	Sneha	105,9/120
4	BERNI	Leda	104,8/120
5	STEINBAUER	Laurenz Felix	102,7/120
6	CUADRA	Francisco	97,9/120
7	VERDIANI	Valentina	96,9/120
8	BOSE	Utsav	92,3/120

The candidate REGGIANI Elisabetta is declared as winner.

**Thematic:** “Analysis of the surface chemistry of stars with distorted shape, caused by fast rotation or by the interaction with close companions”

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	BERNI	Leda	109,4/120
2.	SIMONATO	Filippo	106,2/120
3.	NEDHATH DIVAKARAN	Sneha	103,1/120
4.	CUADRA	Francisco	98,7/120
5.	VERDIANI	Valentina	96,9/120
6.	STEINBAUER	Laurenz Felix	96/120

The candidate BERNI Leda is declared as winner.

**Thematic:** “Development of the adaptive Optics System MORFEO for the ELT Telescope: Wavefront Sensing Techniques and Advanced Control for Multi-Conjugate Systems”

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	MALIK	Dheeraj	113/120

The candidate MALIK Dheeraj is declared as winner.

**Thematic:** “Direct detection and spectral characterization of protoplanets: from VLT/ERIS to ELT/MICADO & ELT/METIS”

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	MAIO	Francesco	113,1/120
2.	SIGNORELLI	Dalila	103,2/120
3.	GIOVANNINI	Ilaria	97,4/120
4.	LODDO	Riccardo	94/120
5.	DE GIORGI	Giacomo	90,5/120

The candidate MAIO Francesco is declared as winner.

**Thematic:** “Theoretical, Observational Astrophysics and related Instrumentation and Technology”

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	BRACCI	Caterina	112,1/120
2.	CECI	Matteo	106,7/120
3.	MORESCHINI	Bianca	106,5/120
4.	BERNI	Leda	99,8/120
5.	MASCOLO	Ylenia	97,5/120
6.	GIGLI	Diego	94,3/120
7.	GIOVANNINI	Ilaria	92,4/120
8.	DE GIORGI	Giacomo	88/120

The candidate BRACCI Caterina is declared as winner.

**RANKING**  
**POSITION WITH SPECIFIC RESEARCH TOPIC**  
**Istituto di Ricerca e di Studi in Ottica e Optometria (IRSOO)**  
**Thematic: "Virtual Refraction: comparison of methods for refraction in domestic settings"**

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	FOSETTI	Lorenzo	99,5/120

The candidate FOSETTI Lorenzo is declared as winner.

**RANKINGS**  
**POSITIONS WITH SPECIFIC RESEARCH TOPIC**  
**Department of Physics and Astronomy**

**Thematic: "Development and characterization of photonic chips for quantum internet"**  
 Funded by ERC project "Quantum Optical MULTidimensional NETwork (QOMUNE) - G.A. n. 101077917

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	ALYANNEZHADI	Mojtaba	84,6/120

The candidate ALYANNEZHADI Mojtaba is declared as winner.

**Thematic: "Galactic archeology in the local group with spectroscopic observations"**  
 Funded by ERC project "TREASURES: Digging into dwarf galaxies" (TREASURES) - G. A. n. 101117455

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	VERDIANI	Valentina	105,4/120
2.	CUADRA	Francisco	103,7/120
3.	BERNI	Leda	99,9/120
4.	SANTARELLI	Lorenzo	98,6/120
5.	REGGIANI	Elisabetta	96,3/120

The candidate VERDIANI Valentina is declared as winner.

**Thematic: "Study and realization of advanced atomic interferometers for precision measurements and fundamental physics tests"**  
 Funded by HORIZON-CL4-2021-DIGITAL-EMERGING-02 project "Deep Ultraviolet Laser For Quantum Technology" (UVQuant) - G. A. n. 101080164

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	VETRANO	Vito	101/120
2.	CAFASSO	Dario	97,6/120

The candidate VETRANO Vito is declared as winner.

**Thematic:** “Multiplexed light-sheet microscopy for 3D molecular phenotyping of biological tissues”  
Funded by Swiss National Science Foundation project “3Dhist: Evolution of colorectal cancer metastases using multimodal 2D and 3D images”

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	SANTHA KUNJAPPY	John Jacob	90,7/120

The candidate SANTHA KUNJAPPY John Jacob is declared as winner.

#### **RANKING**

##### **POSITION WITH SPECIFIC RESEARCH TOPIC**

##### **Department of Physics and Astronomy**

NRRP - European Union - NextGenerationEU

**Thematic:** “Numerical simulations of many-body systems and magnetic molecules”

Missione 4 “Istruzione e Ricerca” - Componente 2 “Dalla ricerca all’impresa” – “Rafforzamento delle strutture di ricerca per la creazione di “campioni nazionali di R&S” su alcune “Key Enabling Technologies” (Centri Nazionali) - Centro Nazionale di Ricerca HPC, Big data e Quantum Computing

- CN1 - CUP: B83C22002830001

	<b>SURNAME</b>	<b>NAME</b>	<b>RESULT</b>
1.	ZAMBONI	Marco	
2.	MARCELLI	Alessandro	
3.	P S	Mohammed Bilal	

The candidate ZAMBONI Marco is declared as winner.

#### **RANKING**

##### **POSITION WITH SPECIFIC RESEARCH TOPIC**

##### **Department of Chemistry “Ugo Schiff”**

**Thematic:** “Spin-Electric effects in molecular magnetic materials of interest for quantum technologies”

Funded by FIS2021 project ELECOS

NO ELIGIBLE CANDIDATE
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Florence, 07<sup>th</sup> August 2024