

# RESEARCH IN ACCELERATOR PHYSICS



## PhD IN ACCELERATOR PHYSICS

This three-year PhD program is a **unique program in Italy** focused on theoretical and experimental aspects of Accelerator Physics. It aims to prepare young researchers, profiting from the **world class experts in Accelerator Physics at both Universities and INFN**, the National Institute for High Energy Physics. Theoretical and preparatory courses in Accelerators physics use **e-learning tools** to enable also remote attendance. In addition, students are expected to spend significant time at **international laboratories for hands-on and experimental activities**.

Co-ordinator: Prof. Gianluca Cavoto

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[https://phd.uniroma1.it/web/FISICA-E-TECNOLOGIA-DEGLI-](https://phd.uniroma1.it/web/FISICA-E-TECNOLOGIA-DEGLI-ACCELERATORI_nD4093_.aspx)

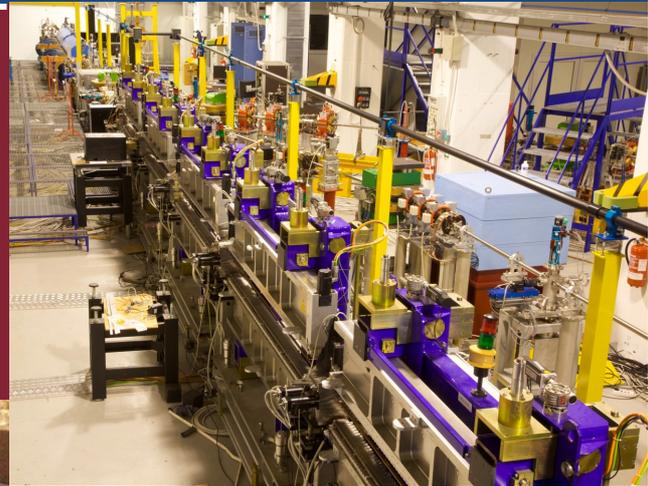
[ACCELERATORI\\_nD4093\\_.aspx](https://phd.uniroma1.it/web/FISICA-E-TECNOLOGIA-DEGLI-ACCELERATORI_nD4093_.aspx) The XLI cycle call has been published:

<https://phd.uniroma1.it/web/concorso41.aspx?i=4093&l=EN>



### EXAMPLES OF RESEARCH ACTIVITIES

- High luminosity upgrade of LHC
- Future circular colliders
- Accelerators for carbon-ion therapy
- Laser and beam driven plasma acceleration
- Optical Transition Radiation
- Cavity beam position monitoring
- Radio-frequency systems
- Particle acceleration with high intensity THz radiation



### XLI CALL

- ▶ **Deadline: 19 June 2025 @ 23:59**
- ▶ **Titles evaluation 26<sup>th</sup> June, Oral exam 3<sup>rd</sup> July**



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