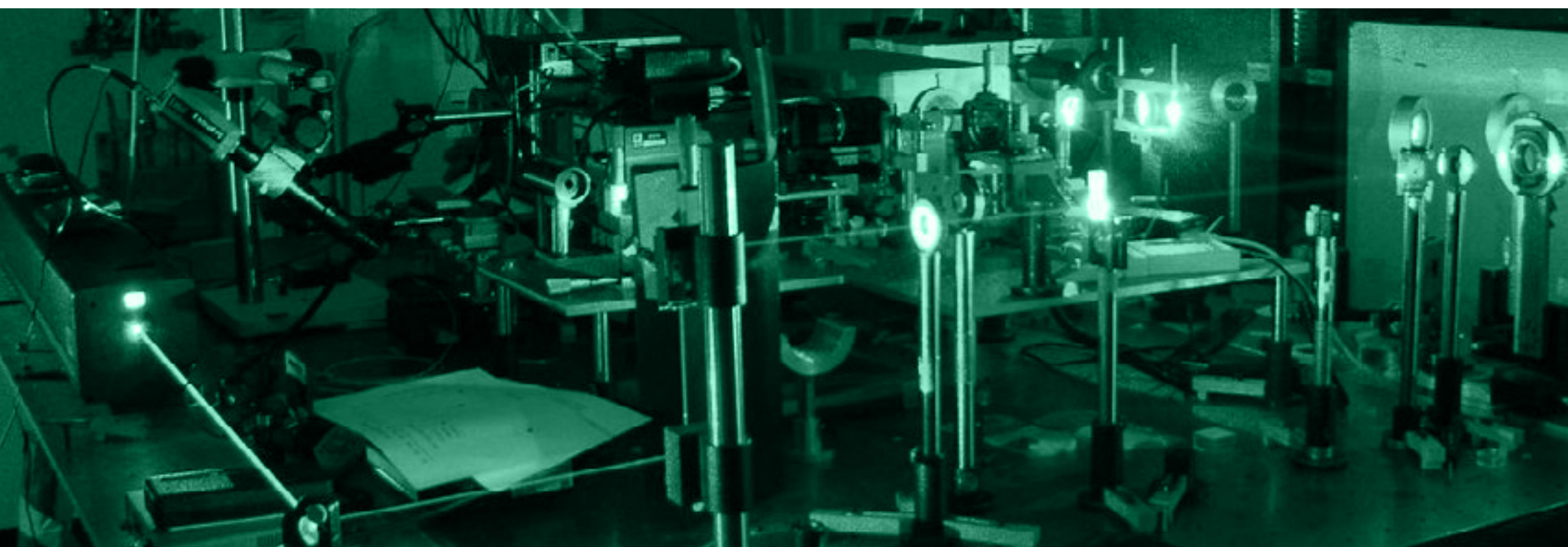




## CALL FOR APPLICATIONS 2015

# PHD IN PHYSICS

### 31<sup>st</sup> cycle



#### PROGRAMME

The PhD Programme is organized by the Physics Department of the University of Trento. The close partnership with INFN, Istituto Nazionale di Fisica Nucleare, enriches the Programme.

- Autonomous research under the direction of a supervisor and within the laboratories of the Physics Department or of local research institutions.
- Wide range of courses held by scientists of the Department of Physics or of the local research institutions.
- Numerous high level seminars and talks given by visiting scholars.
- Dynamic international and lively environment with state-of-the-art facilities.

#### OPENINGS

There are **14 positions** starting from November 1<sup>st</sup>, 2015. At present, **12 fellowships** are available: 6 fellowships on open research topics among those of interest to the Physics Department, 6 on predetermined research subjects. Additional fellowships may be provided.

Doctoral grants are funded by the University of Trento and INFN, the following local research institutions make available their research infrastructures and know how: **FBK** (CMM, ECT\*, LISC); **CNR** (IBF, IFN, IMEM, INO-BEC); **IIT** (CNCS), **INFN** (TIFPA).

- In addition there are research collaborations with an extended network of international institutions; among these the Los Alamos National Laboratories (LANL, New Mexico) will provide support for a visiting student. The salary of the PhD student, being fixed in Italy by national rules, is complemented locally by supports and benefits.

#### SELECTION

Candidates will be selected on the basis of their CV and of a colloquium. Selected candidates will choose a PhD topic among those offered by the Physics Department or by the sponsoring research institutions.

#### DEADLINE

**August 26<sup>th</sup>, 2015**

#### RESEARCH TOPICS

- Biophysics and Biosignals
- Biorganic Chemistry
- Computational Physics and Astrophysics
- Condensed Matter Physics
- Chemistry and Physics of Cold Plasmas
- Experimental Astrochemistry
- Experimental Astroparticle Physics
- Experimental Gravitation and Gravitational Astronomy
- Hydrogen, Energy, Environment
- Materials Science
- Microsystems
- Nanoscience
- Optical and X-ray Spectroscopy
- Physical Science Communication
- Physics with Antimatter
- Photonics
- Quantum Optics
- Structure and Dynamics of Complex Systems
- Structure and Reactivity of Molecular Systems
- Theoretical Cosmology
- Theory of Fundamental Interactions
- Theory of Nuclear and Subnuclear Physics
- Ultracold Atoms and Quantum Gases

#### MORE INFO

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