

Annex 1 to the Call Notice referred to in DR

DEPARTMENT OF PHYSICS AND GEOLOGY

Public selection procedure for the stipulation of a private law contract for the establishment of a subordinated employment relationship as a fixed-term university researcher, pursuant to Article 24 - paragraph 3 - letter a) of Law No. 240 of 30.12.2010 - COD. RTDA-2023-01:

Academic Recruitment Field	02/A1 - Experimental Physics of Fundamental Interactions.
Profile: Academic Discipline	FIS/01 - Experimental Physics
Contract duration:	3 years, possibly extendable for two more, - full-time
Place of employment:	University of Perugia - Department of Physics and Geology
Referent teacher	Prof. Helios Vocca
Foreign language required:	English
Maximum number of publications:	12

The contract is aimed at carrying out the following research, teaching, supplementary teaching and student service activities:

- **Research activity:** will have as its object "*Minimization of the fundamental noises limiting the sensitivity of present and future Gravitational Wave detectors*".

- **Summary Description:** The sensitivity of present and future detectors for gravitational wave detection is limited by numerous sources of noise, some of them fundamental physics noise such as thermal noise from interferometer optics suspensions or quantum noises such as shot noise and laser radiation pressure.

The LIGO, Virgo, KAGRA, and Einstein Telescope collaborations are extremely active on these issues, and an interaction with other international groups to succeed in minimizing these noises is critical to their present and future success. The current development of new research infrastructures is also bringing additional energy in this direction, and a joint effort to implement them will be the challenge of the coming years.

- **Teaching, supplementary teaching and student service activities:** 350 hours per year (full-time) mainly within the Academic Discipline FIS/01, of which not more than 90 hours are for formal teaching activities.

Requirements for Call participation:

1. PhD in Physics or equivalent.
2. Experience in the field of research and/or teaching, proving the possession of solid basic skills in Academic Discipline FIS/01.

Discussion schedule and related notices.

On 20.4.2023, an Executive Notice will be published on the University website (www.unipg.it) under "Ateneo" - "Concorsi" – "Personale docente" - "Procedura di valutazione comparativa Ricercatori a tempo determinato", **announcing:**

- the date on which the Executive Notice will be published by which the list of candidates admitted to the discussion and the schedule and the modalities with which the discussion will take place;

- the possible postponement of publication of the aforementioned Notice, or any other communication relating to this selection procedure.

