

CONCORSO NR. 24107/2022

PROVA ORALE – QUESITI

- Contabilità di Stato e degli enti pubblici, codice degli appalti pubblici, beni patrimoniali dello Stato e degli enti pubblici -
 1. Quali sono le principali fonti che regolano la contabilità pubblica
 2. Quali tipi di bilancio, a seconda degli scopi che si propone o dei soggetti che lo pongono in essere, il candidato conosce.
 3. Cos'è il DEF?
 4. In un bilancio quando si parla di residui, cosa sono e qual è la loro gestione?
 5. Quali sono i requisiti essenziali di un contratto?
 6. Cos'è il Mandato Informatico?
 7. Che cos'è la delibera a contrarre?
 8. Che cos'è il SIOPE?
 9. Che cos'è la CONSIP?
 10. Qual è la differenza tra “avvalimento” e “subappalto”?
 11. Come può definirsi un bene pubblico?
 12. In che cosa consiste l'inventario dei beni mobili patrimoniali?

- Norme generali sull'ordinamento del lavoro alle dipendenze delle amministrazioni pubbliche -
 13. Quali sono i doveri-obblighi del dipendente di una P.A.
 14. Quali sono i diritti del pubblico impiegato
 15. Cos'è l'ARAN?
 16. Quali sono le differenze tra il “telelavoro” e lo “smart working”?
 17. Quali sono i poteri, gli obblighi e le responsabilità del datore di lavoro?
 18. Differenze tra responsabilità amministrativa e responsabilità contabile

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THE LHC RESTART AND NEW PROSPECTS

Interview with Roberto Tenchini, president of the INFN National Scientific Committee 1, which coordinates the institute's activities in the particle physics sector, and researcher with the INFN Pisa Division.

Last 22 April, the whole international particle physics community welcomed with interest and enthusiasm the news coming from CERN where two proton beams, each with an energy of 450 billion electronvolts (450 GeV), were injected in opposite directions inside the 27-kilometre underground ring of the Large Hadron Collider (LHC), the biggest and most powerful particle accelerator ever created. The restart of the LHC, which comes after a stop of almost three years, during which the machine and the four big experiments installed at the beam collision points underwent maintenance and upgrade works, was, in fact, the first step towards fully restarting scientific activities of the third data acquisition period (Run 3). Thanks to this new phase of operations in the collider's life, the start date for which is planned for July, particle physicists of the large experimental collaborations hope, in the next four years, to shed light on the properties of the Higgs boson and on the anomalies encountered during Run 2 that, if confirmed, could also lead to a new physics beyond the Standard Model.



MAGIC TELESCOPES OBSERVE A RARE GAMMA EVENT IN THE SKY

A new study conducted by the European collaboration MAGIC, published on 14 April in the journal *Nature Astronomy*, revealed the observation of a flow of high-energy gamma rays coming from a recurrent nova in the Milky Way. The event, the first of its kind to be detected at similar energies, sheds light on a class of astrophysical phenomena considered responsible for the periodic explosions that take place on the surface of novae - stellar bodies belonging to the family of white dwarves - and for the emission of a part of the photons that constitute the gamma radiation background that permeates our whole galaxy. The result was obtained thanks to detections made by the two Cherenkov telescopes located on the island of La Palma (Canary Islands, Spain), which compose the MAGIC system. Italy is engaged in MAGIC with a prominent role through the contributions of the Italian National Institute for Astrophysics (INAF) and INFN.



RESEARCH QUALITY EVALUATION

INFN consolidates its top position among Public Research Bodies overseen by the Ministry of Universities and Research (MUR) in the 2015-2019 research quality evaluation (VQR) of the Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR), and also in the evaluation of the quality of its Third Mission, or its knowledge and technology transfer and dissemination of scientific culture. INFN's results, in fact, are in line with those achieved in the previous 2011-2014 VQR. The positive result was made possible by the commitment of the whole INFN community, all employees and associates, PhD students, scholarship-holders and researchers, who, over the years, have allowed, and still allow today, INFN to successfully conduct even the most ambitious, complex, and competitive projects nationally and internationally.



THE FIRST ITALIAN WORKSHOP ON THE GREAT ACCELERATOR OF THE FUTURE

The First FCC-Italy Workshop was recently held in Rome. This was the first Italian workshop dedicated to the project for the successor of the Large Hadron Collider at CERN, the Future Circular Collider. The event, organized by INFN, was attended by 120 researchers, and 15 reports were presented.

In the latest document on the European Strategy for Particle Physics, approved by the CERN Council in June 2020, FCC is indicated as the future project of the highest priority: from here a vast program of feasibility studies has begun, which will constitute an important input for the next Update of the European Strategy for Particle Physics.

The FCC project envisages a new accelerator machine much more powerful than the current LHC, with a circumference of about 91 km to be realized in a tunnel under French and Swiss territory, in the nearby of CERN to exploit the existing infrastructures. In a first phase (FCC-ee) the tunnel should host a collider of electrons and positrons with energy ranging from 90 to 365 GeV.



FROM PARTICLES TO THE STARS: HIGH SCHOOL STUDENTS AT THE MODERN PHYSICS SCHOOL

From particle physics to the Universe, from the infinitely small to the infinitely large: almost 200 senior high school students from Italy and other countries in the world participated to INSPYRE (International School on modern PhYsics and REsearch), the international school organised by the INFN Frascati National Laboratories, from 4 to 8 April. The international INSPYRE school ended on Friday 8 April with the participation of students from more than 100 school institutes, 79 Italian ones and 22 from different countries in the world: France, Germany, India, Indonesia, Ireland, Lithuania, Luxembourg, Portugal, Czech Republic, Romania, Sweden, and Turkey. Thanks to this experience, the students approached the world of particle physics research, and the discovery of the mysteries of the universe, following a cycle of online lessons, that, as of Monday 11 April have been available on the public channel YouTube of the INFN National Laboratories of Frascati. Having started in 2011 with 20 students who were mainly Italian, INSPYRE, which is now in its XII edition, is a chance for exchange among students and for discovering the world of scientific research.



FEMALE SCIENTISTS. TALENTS TO ENHANCE FOR A SUCCESSFUL SCIENCE

On May 20 the Auditorium Parco della Musica in Rome will host the event Scienziate. Talenti da valorizzare per una scienza di successo (Female scientists. Talents to enhance for a successful science), organized within the competition for secondary schools Women and research in physics: opportunities, obstacles and challenges, promoted by INFN, the Italian National Institute for Nuclear Physics, and the Italian National Research Council Institute for Research on Population and Social Policy IRPPS, partner of the European network GENERA - Gender Equality Network in the European Research Area.

The award ceremony of the competition, in the first part of the event, will be followed by dialogues with scientists, accompanied by illustrated readings of historical witnesses. On stage and remotely, young female researchers and expert scientists will take turns: from the aspiring astronaut Linda Raimondo to the first Italian woman to graduate in aerospace engineering, Amalia Ercoli Finzi, to the frontier research conducted by Marica Branchesi in the field of gravitational waves and by Anna Grassellino for quantum computing. The whole event will be moderated by Sara Zambotti and Massimo Cirri, Radio Rai.

