

**Bando n. 21/2021**– Selezione pubblica, per titoli ed esami, per la copertura di n. 1 posto a tempo pieno e indeterminato nell’Agenzia Spaziale Italiana, nel profilo di C.T.E.R., VI livello professionale – Area Sicurezza.

### **Tracce selezionate dai candidati**

#### **Busta n.1**

- Il candidato descriva le attività/esperienze professionali che ritiene più significative nell’ambito del proprio CV, con particolare riferimento a quelle relative allo specifico profilo per il quale concorre.
- Con riferimento al proprio elaborato sviluppato durante la prova scritta, quali sono gli aspetti, se ce ne sono, che se avesse avuto più tempo a disposizione avrebbe voluto maggiormente approfondire?
- Il candidato descriva le caratteristiche di un sistema anti intrusione di un data center per la gestione di informazioni classificate ai sensi del DPCM n. 5/2015 e s.m.i.
- Il candidato descriva le caratteristiche di un sistema di video sorveglianza di un data center per la gestione di informazioni classificate ai sensi del DPCM n. 5/2015 e s.m.i.
- Il candidato illustri quali sono i Regolamenti di cui lo Statuto dall’ASI prevede l’Agenzia debba dotarsi e le loro principali finalità.
- Il candidato illustri il delitto di corruzione.
- Il candidato legga e traduca il testo in inglese riportato nell’allegato A
- Il candidato svolga l’esercizio pratico indicato nell’allegato B

#### **Busta n.2**

- Il candidato descriva le attività/esperienze professionali che ritiene più significative nell’ambito del proprio CV, con particolare riferimento a quelle relative allo specifico profilo per il quale concorre.
- Con riferimento al proprio elaborato sviluppato durante la prova scritta, quali sono gli aspetti, se ce ne sono, che se avesse avuto più tempo a disposizione avrebbe voluto maggiormente approfondire?
- Il candidato illustri il documento di analisi del rischio relativo alla sicurezza infrastrutturale di un data center di un sito preposto alla trattazione di informazioni classificate ai sensi del DPCM n. 5/2015 e s.m.i.
- Il candidato illustri le caratteristiche di un Sistema Tempest.
- Il candidato illustri quali sono i Piani di Attività che lo Statuto dell’ASI prevede l’Agenzia debba predisporre e le loro principali caratteristiche.
- Il candidato illustri il delitto di concussione.
- Il candidato legga e traduca il testo in inglese riportato nell’allegato A
- Il candidato svolga l’esercizio pratico indicato nell’allegato B

#### **Busta n.3**

- Il candidato descriva le attività/esperienze professionali che ritiene più significative nell’ambito del proprio CV, con particolare riferimento a quelle relative allo specifico profilo per il quale concorre.

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- Con riferimento al proprio elaborato sviluppato durante la prova scritta, quali sono gli aspetti, se ce ne sono, che se avesse avuto più tempo a disposizione avrebbe voluto maggiormente approfondire?
- Il candidato illustri le caratteristiche di un sistema di controllo accessi posto agli ingressi di un’area destinata alla trattazione di informazioni classificate ai sensi del DPCM n. 5/2015 e s.m.i.
- Il candidato illustri i sistemi di cifratura a chiave simmetrica e asimmetrica, distinzioni e funzionalità.
- Il candidato illustri quali sono gli Organi dell’ASI previsti nello Statuto e le loro principali funzioni.
- Il candidato illustri il delitto della corruzione.
- Il candidato legga e traduca il testo in inglese riportato nell’allegato A
- Il candidato svolga l’esercizio pratico indicato nell’allegato B

#### **Busta n.4**

- Il candidato descriva le attività/esperienze professionali che ritiene più significative nell’ambito del proprio CV, con particolare riferimento a quelle relative allo specifico profilo per il quale concorre.
- Con riferimento al proprio elaborato sviluppato durante la prova scritta, quali sono gli aspetti, se ce ne sono, che se avesse avuto più tempo a disposizione avrebbe voluto maggiormente approfondire?
- Il candidato illustri il procedimento di omologazione di sistemi CIS di cui al DPCM n. 5/2015 e s.m.i.
- Il candidato illustri le caratteristiche di un sistema di alimentazione elettrica di un data center per la gestione di informazioni classificate ai sensi del DPCM n. 5/2015 e s.m.i.
- Il candidato illustri quali sono i compiti del Direttore Generale previsti nello Statuto dell’Agenzia.
- Il candidato illustri il delitto di peculato.
- Il candidato legga e traduca il testo in inglese riportato nell’allegato A
- Il candidato svolga l’esercizio pratico indicato nell’allegato B

#### **Busta n.6**

- Il candidato descriva le attività/esperienze professionali che ritiene più significative nell’ambito del proprio CV, con particolare riferimento a quelle relative allo specifico profilo per il quale concorre.
- Con riferimento al proprio elaborato sviluppato durante la prova scritta, quali sono gli aspetti, se ce ne sono, che se avesse avuto più tempo a disposizione avrebbe voluto maggiormente approfondire?
- Il candidato illustri le peculiarità che caratterizzano e differenziano i sistemi IT di un’Area Sicurezza (di cui al DPCM n. 5/2015 e s.m.i.) rispetto a sistemi IT generici
- Il candidato illustri le minacce da tenere in considerazione e le contromisure necessarie da adottare per garantire la sicurezza di un data center all’interno del quale vengono trattate informazioni classificate di cui al DPCM n. 5/2015 e s.m.i.

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- Il candidato illustri le missioni e gli obiettivi più rilevanti dell’ASI previsti sullo statuto.
- Il candidato illustri i principi generali a cui si deve ispirare l’attività amministrativa.
- Il candidato legga e traduca il testo in inglese riportato nell’allegato A
- Il candidato svolga l’esercizio pratico indicato nell’allegato B

#### **Busta n.8**

- Il candidato descriva le attività/esperienze professionali che ritiene più significative nell’ambito del proprio CV, con particolare riferimento a quelle relative allo specifico profilo per il quale concorre.
- Con riferimento al proprio elaborato sviluppato durante la prova scritta, quali sono gli aspetti, se ce ne sono, che se avesse avuto più tempo a disposizione avrebbe voluto maggiormente approfondire?
- Il candidato illustri il procedimento di omologazione dei sistemi COMSEC e TEMPEST di cui al DPCM n. 5/2015 e s.m.i.
- Il candidato illustri il documento di analisi del rischio relativo alla sicurezza IT di un data center di cui al DPCM n. 5/2015 e s.m.i.
- Il candidato illustri i principi generali a cui si deve ispirare l’attività amministrativa.
- Il candidato descriva il delitto di rivelazione ed utilizzazione di segreti d’ufficio.
- Il candidato legga e traduca il testo in inglese riportato nell’allegato A
- Il candidato svolga l’esercizio pratico indicato nell’allegato B

#### **Busta n.9**

- Il candidato descriva le attività/esperienze professionali che ritiene più significative nell’ambito del proprio CV, con particolare riferimento a quelle relative allo specifico profilo per il quale concorre.
- Con riferimento al proprio elaborato sviluppato durante la prova scritta, quali sono gli aspetti, se ce ne sono, che se avesse avuto più tempo a disposizione avrebbe voluto maggiormente approfondire?
- Il candidato illustri le misure minime di protezione da adottare per le aree riservate di cui al DPCM n. 5/2015 e s.m.i.
- Il candidato illustri il valore di un sistema di continuità di alimentazione elettrica per un data center per la gestione di informazioni classificate ai sensi del DPCM n. 5/2015 e s.m.i.
- Il candidato descriva il delitto di rivelazione ed utilizzazione di segreti d’ufficio.
- Il candidato illustri quali sono gli Organi dell’ASI previsti nello Statuto e le loro principali funzioni.
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## IXPE MISSION: NASA AND ITALIAN SPACE AGENCY STILL TOGETHER IN SPACE, WITH INFN AND INAF'S MADE IN ITALY TECHNOLOGY

The space telescope, with three important, made in Italy instruments aboard, was launched at dawn. It will conduct studies based on X-ray polarimetry



09 December 2021

A

A lot of **Italian science** aboard the **IXPE** (Imaging X-ray Polarimetry Explorer) satellite, born from the **exclusive partnership between the NASA and the Italian Space Agency (ASI)**, which took off on time this morning, at 7.00 AM (Italian time), from the Kennedy Space Center in Florida. A Falcon 9 carrier rocket, by the private company SpaceX, was used for the launch, which was attended by the ASI president, Giorgio Saccoccia, and the NASA administrator, Bill Nelson.

IXPE is the first mission which is fully dedicated at studying the universe through X-ray polarization, and to do so it will use an entirely “made in Italy” technology. Three telescopes have been installed aboard IXPE, with detectors **funded by the ASI** and developed by a team of scientists from the **National Institute for Nuclear Physics (INFN)** and the **National Institute for Astrophysics (INAF)**.

The three Gas Pixel Detectors represent the core of the three Gas Pixel Detectors, next-generation detectors which take advantage of a technology developed over the last 15 years and the skills gained by the INFN in the field of particle physics and the INAF in the study of the high-energy universe. Thanks to its innovative technology, IXPE will not only be able to measure the image and energy of celestial sources, but will also be able to obtain, for the first time, direct indications on the characteristics of the electromagnetic fields associated with them.

“The NASA and the Italian Space Agency (ASI), the United States and Italy have a long tradition of bilateral cooperation on successful space mission, and the IXPE mission is another virtuous example – as recalled by the president of the Italian Space Agency, **Giorgio Saccoccia** – of the Italian capability to work with international partners for the global growth of space activities. Furthermore, we are particularly proud of being able to deliver IXPE’s innovative scientific instruments on time, despite the challenge of the pandemic: a true demonstration of the excellence of the mission’s Italian team. Now the word goes to science, to new discoveries made possible by our country’s space commitment”.





would also like to thank all those who made it possible”, concludes Zoccoli.

"The IXPE mission in partnership with the NASA represents a key milestone, which enhances the great tradition of Italian astrophysics in the study of the Universe with X and gamma rays, as it already happened with the BeppoSAX and AGILE space missions and the participation in the Fermi telescope", says **Marco Tavani**, president of the National Institute for Astrophysics. "The high energy astrophysics community had been waiting for an X-polarimetry instrument for decades. Now Italy is conducting the main part of the IXPE mission and it will be exciting to see the first results: a long-awaited moment, and we are sure it will not disappoint expectations.

The satellite was placed in a circular equatorial orbit, at about 600 km altitude, with an inclination of just 0.2 degrees. During the first two years of the mission, IXPE will open a new astrophysics “window” by carrying out, for the first time, highly sensitive polarization measurements from celestial sources emitting in X-rays. The mission’s main targets will be active galactic nuclei (AGN), microquasars, pulsars and pulsar wind nebulae, magnetars, binaries in X-rays, supernova remnants and galactic center. IXPE will provide contemporary measurements of polarization, variability, spectral data and images, thus allowing to study the geometry and physical processes of radiation emission and acceleration of particles, in environments with extreme magnetic and gravitational fields.

**IXPE is a joint NASA/ASI mission**, selected by the NASA on January 3<sup>rd</sup>, 2017 and part of the SMEX (Small Mission Explorer) space program. Thanks to the contribution of the OHB-I industrial component, the ASI was able to deliver the flight models to the NASA within the established times, as requested by the participation in the SMEX space programs.

As well as managing the Italian participation in the IXPE program, the ASI provides the “**Luigi Broglio” space center (BSC) in Malindi**, Kenya, as the primary ground station for satellite tracking, supported also by Telespazio and the Space Science Data Center (SSDC) at the headquarters of the Agency in Rome for the activities of scientific data processing and analysis.

Specifically, the BSC successfully performed two important supports: 1) at 06:00 AM (UTC) the support to SpaceX – Falcon 9, as part of the partnership between the ASI and SpaceX for TT&C (Telemetry, Tracking and Command) activities from the BSC; 2) at 06:31 AM (UTC), after its separation from the Falcon 9 carrier rocket, the support to the IXPE satellite, as part of the ASI-NASA partnership.

The center conducted all the required upgrade activities to make the Malindi Ground Station compliant with the NASA's requirements. Furthermore, it supported the mission in all the stages of pre-launch operations, including the RFCT (Radio Frequency Compatibility Test) at the NASA, and will continue to support the acquisition of scientific data throughout the satellite’s nominal life. To conduct the activities related to the provision of such services, the ASI makes use of its own staff, employed at the Roma office and at the BSC, and of the industrial support offered by Telespazio, as part of the two Operations and Maintenance contracts of the Malindi BSC.

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THURSDAY 18 NOVEMBER 2021

**BSC MALINDI, CONTRACT RENEWAL FOR THE KENYAN STAFF ►**



The new contract was signed today in Kenya, at the Broglio Space Centre

TUESDAY 26 OCTOBER 2021

**ITALY AND LUXEMBOURG SIGN MEMORANDUM ON SPACE COOPERATIO ►**





Marc Serres, CEO of the Luxembourg Space Agency and Giorgio Saccoccia, President of the Italian Space Agency signed today a Memorandum of understanding (MoU) that will serve to catalyze and significantly deepen cooperation between the Grand Duchy of Luxembourg and Italy in the field of space

FRIDAY 01 OCTOBER 2021

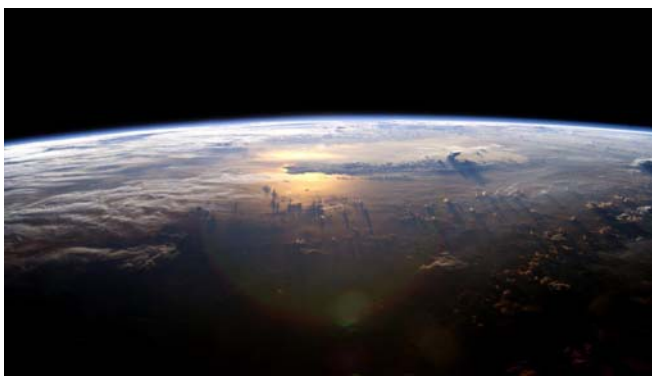
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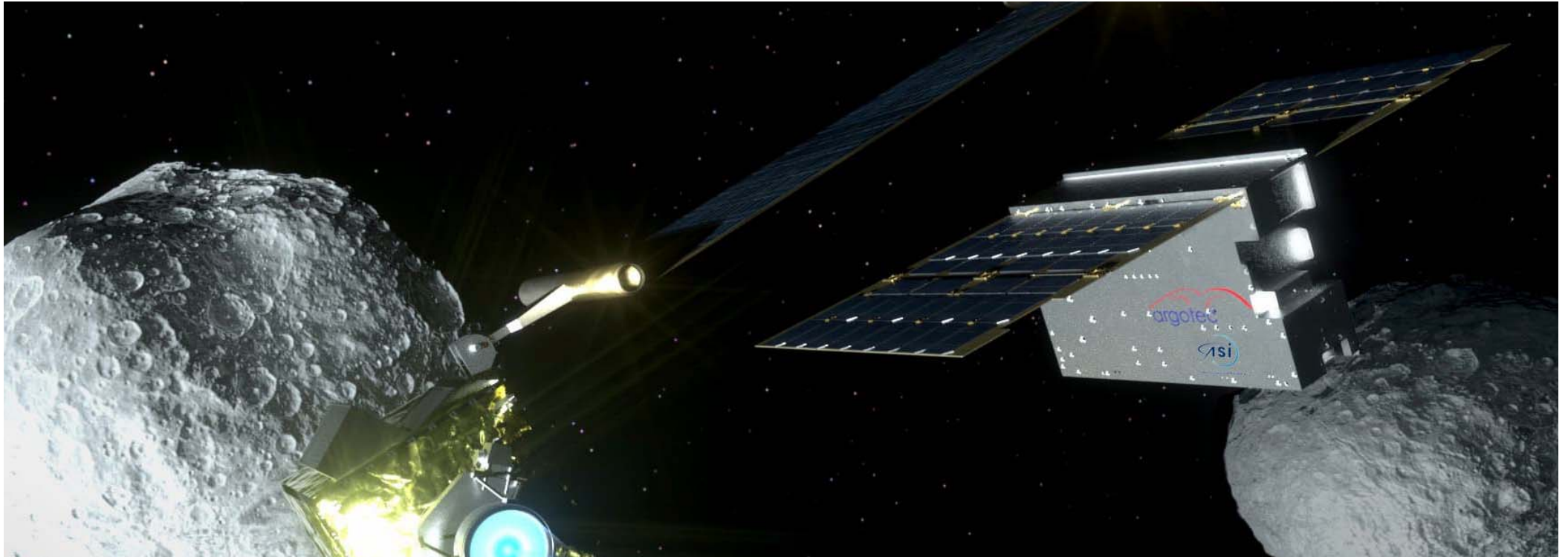


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## LICIACUBE FLIES WITH DART TOWARDS THE ASTEROID. AN ITALIAN SPECIAL ENVOY TO THE DEEP SPACE

The deep space journey of the Italian Space Agency's satellite has started. The satellite was developed and manufactured by Argotec, which will be tasked with acting as a photojournalist for the American probe DART, which will in about a year will smash into Didymos, the smallest of the binary asteroids



24 November 2021

**A** DART, NASA's first planetary defense mission, started on time, at 7:21 AM Italian time, from Vandenberg Air Force Base, in California. It carries the **LICIACube satellite**, manufactured by **Argotec**, in partnership with and with the contribution of the **Italian Space Agency (ASI)**.

LICIACube (an acronym for Light Italian CubeSat for Imaging of Asteroids), a technological jewel of just 30x20x10 cm and about 13kgs, is a project by the ASI which has been fully completed in the facilities of the company Argotec in Turin, and is the **first satellite built in our country to travel to deep space**. The Falcon 9 carrier rocket, developed by the American private company SpaceX, was used for the launch.

The goal of the mission will be to reach the binary system made up of the Didymos asteroid and the Dimorphos satellite by autumn next year, and make the American probe DART (Double Asteroid Redirection Test) smash into the latter at high speed, whereas **LICIACube**, remaining at a safe distance, will be in charge of **taking pictures and acquiring the impact data** to assess whether the asteroid will deviate its trajectory. DART will be first full-scale test for the kinetic impact technique, whose purpose is planetary defense for the safeguard of the Earth, in case any dangerous situations, caused by celestial objects intersecting the Earth's orbit, occur in the future.

Neither of the two asteroids is a threat for Earth, but their orbit around the Sun makes them transit close enough to our planet to allow telescopes to observe the consequences of DART's impact and calculating how effective the mission will have been in modifying Dimorphos's trajectory following the impact. The change in the latter's period of revolution around its more massive rocky companion will be measured immediately after the impact and then cumulatively, in the next months and years. In addition to what will be detected from Earth, the pictures taken by LICIACube will provide unique elements, acquired on-site and in the moments just after the impact, which will be relevant also for measuring the orbital deflection.





“The small LICIACube CubeSat by the Italian Space Agency – said the ASI’s president, **Giorgio Saccoccia** – will have a highly challenging task in this one of a kind planetary defense mission, which will pave the way to several other missions. It’s no coincidence that this task was entrusted to Italy – the only international partner in the mission –, to confirm the strength of the bilateral relations between the NASA and the ASI and the reliability of the national industry and scientific team, made up of Italian research bodies and universities”.

**B**

“After nearly two years of work, this morning it was really impressive to attend the launch of the LICIACube microsatellite, which has been fully developed and manufactured in our facilities in Turin – said **David Avino**, CEO of Argotec -. Argotec’s satellite platform is one of the most technologically advanced platforms in the world, which is capable of operating in the deep space and guaranteeing high performances despite the reduced size. We are really proud of being aboard such an ambitious NASA’s mission, which in the future will be useful for planetary defense. The next appointment is scheduled for autumn 2022 when, from our Argotec control center in Turin, we will support the satellite’s activities in real time: from the release from the American probe to the acquisition of high-resolution images of DART’s impact”.

Ten days before the impact, LICIACube will be released into space and will carry out, in autonomous navigation, a fly-by of the asteroid system, approaching up to about 50 kilometers away. From that distance, it will acquire high-resolution images of the crater and the debris generated by the collision, to allow a full assessment of the effects of the impact. All the data produced in this stage of the mission will be key to assess the efficacy of the variation capacity of the asteroids ‘orbit through this technique. Furthermore, the Italian and American scientific teams will use the data acquired by DART and LICIACube to conduct investigations on the nature and composition of the asteroid.

The set of images will be acquired by LICIACube through two on-board cameras, named LUKE (LICIACube Unit Key Explorer) and LEIA (LICIACube Explorer Imaging for Asteroid). LICIACube’s X-band communication system will then transmit the images to Earth in the months following DART’s collision. Based on these optical surveys, it will be possible to carry out specific scientific investigations, which will be added to the mission’s expected results for the purposes of planetary defense.

The ASI, through the SSDC (Space Science Data Center), is also in charge of the data management and Science Operations Center, where a software has been developed to automatically manage the data flow, in order to make it available according to an internationally recognized standard, designed to make the data FAIR (Findable, Accessible, Interoperable, Reusable), also thanks to SSDC’s MATISSE web tool.

**C**

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THURSDAY 09 DECEMBER 2021

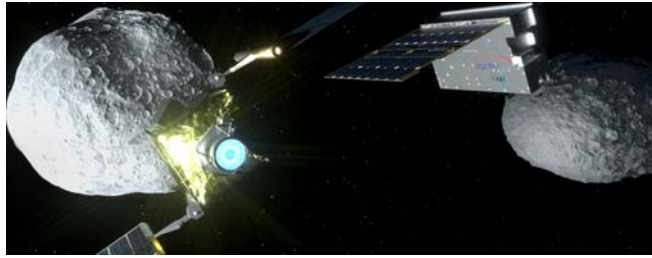
### **IXPE MISSION: NASA AND ITALIAN SPACE AGENCY STILL TOGETHER IN SPACE, WITH INFN AND INAF’S MADE IN ITALY TECHNOLOGY ►**



The space telescope, with three important, made in Italy instruments aboard, was launched at dawn. It will conduct studies based on X-ray polarimetry

FRIDAY 01 OCTOBER 2021

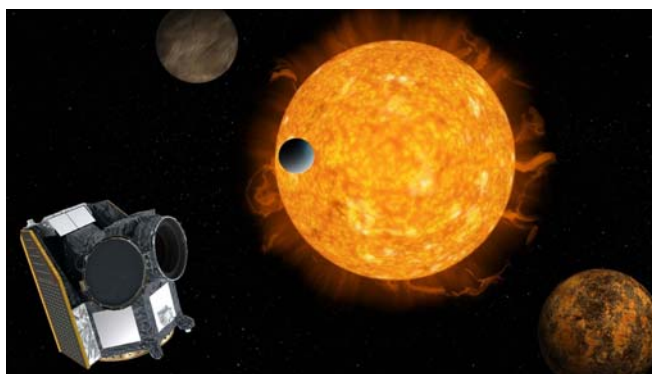
### **DART GETS ITS CUBESAT COMPANION, ITS LAST MAJOR PIECE ►**



LICIACube has the important task of watching DART's final maneuver a deliberate crash into an asteroid and its effects

THURSDAY 16 APRIL 2020

## **CHEOPS IS READY FOR HUNTING >**



The scientific operations of the space mission Cheops officially started. The mission, with an important Italian participation, explores the Universe to give us an in-depth look at new worlds



**Agenzia Spaziale Italiana**

Via del Politecnico snc 00133 - Roma (RM)

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## THE ITALIAN SPACE AGENCY COMPLETES THE NEW NATIONAL GNSS FRAME NETWORK

The new network was built by e-GEOS (Telespazio/ASI) and is set to provide up-to-date, high-precision geodetic information through the signals generated by the satellite navigation systems



22 November 2021

**A**

Construction of the New National GNSS (Global Navigation Satellite System) Frame Network of the Italian Space Agency (ASI) has been completed. This infrastructure is of vital importance in providing up-to-date, accurate geodetic information for the scientific community and professional and entrepreneurial operators. The new network was built by e-GEOS, a company belonging to Telespazio (80%) and an investee of ASI (20%).

Through the use of latest-generation technologies, 46 stations distributed evenly across the Italian peninsula will enable the acquisition of signals generated by all the global satellite navigation systems, such as the US GPS, the Russian GLONASS, the Chinese Beidou and, above all, Europe's Galileo.

ASI's GNSS network, which was designed and developed to provide indispensable support for the global geodetic networks (such as the International GNSS Service IGS and the European Reference Frame EUREF), will produce data for the management of the International Terrestrial Reference Frame (ITRF). What's more, it will make a variety of products and services possible: from determining the orbits of GNSS satellites (with an accuracy to the nearest centimetre) to time-synchronising them (better than one nanosecond), useful both for applications on-site as well as to support satellites equipped with GNSS receivers.

The new network will enable ASI and e-GEOS to intensify and fine-tune the joint scientific and operational development under way for the last 25 years at the ASI Space Centre in Matera in the field of meteorology, as well as the study of climate change and space weather. Specifically, the network will enable the provision to the national supply chain - from research centres to SMEs, universities and major corporations - of products and services that are useful for developing innovative, high-precision positioning applications, which can be implemented in a wide variety of sectors: from professional applications to those in the field of precision farming.

**B**



**B**

Telescope SRT built by INAF can be found - a versatile instrument for radio astronomy, geodynamic studies and space science; the European Gravitational Observatory EGO in Cascina (Pisa), which plays host to the large VIRGO interferometer built to detect gravitational waves; as well as several Italian Air Force bases, home to weather stations.

According to Giuseppe Bianco, ASI’s project manager, “Construction of the New National GNSS Frame Network is the result not just of the major effort on the part of ASI and e-GEOS to implement it, but also of the extensive contributions of all the bodies and institutions which today host the new GNSS stations. The entire programme will make it possible to provide innovative information in the Geodesy sector, which sees the Matera Space Centre as the focal point”.

Some stations are located, among others, at the Air Force General Staff HQ, INAF, EGO - VIRGO Centre in Cascina (Pisa), the Municipality of Castelgrande (Potenza) and the Municipality of Isnello (Palermo), the Consorzio per la Bonifica della Capitanata (Land Reclamation Consortium), the Sardinian Water Board and the Autonomous Region of Sardinia, the Libero Consorzio Comunale (Municipal Free Consortium) of Agrigento, the Astronomical Observatory of the Autonomous Region of the Aosta Valley and the Clément Fillietroz-ONLUS Foundation, the Lilio di Savelli Astronomy Park (Crotone), the Autonomous Province of Trento and Trento University, the University of Molise and Sannio University.

All the data acquired by the “New National GNSS Frame Network” will be received, processed and stored at ASI’s Space Centre in Matera and provided to all interested users.

**C**

Photo Credit: ESA

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THURSDAY 09 DECEMBER 2021

**IXPE MISSION: NASA AND ITALIAN SPACE AGENCY STILL TOGETHER IN SPACE, WITH INFN AND INAF’S MADE IN ITALY TECHNOLOGY ►**



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WEDNESDAY 24 NOVEMBER 2021

**LICIACUBE FLIES WITH DART TOWARDS THE ASTEROID. AN ITALIAN SPECIAL ENVOY TO THE DEEP SPACE ►**







THURSDAY 11 NOVEMBER 2021

## **SPACE ECONOMY: THE ESA BIC TURIN OPENS THE CALL TO SUPPORT SPACE RELATED STARTUPS ▶**



The space-bound incubator supported by ESA and ASI and generated from the synergy between the Incubator of Polytechnic of Turin I3P, the Polytechnic of Turin and Links Foundation, inaugurates the new node of the European network in Turin, the ESA Business Incubation Centre Turin, with the aim of supporting innovative companies in the space sector. [MORE...](#)

FRIDAY 29 OCTOBER 2021

## **MILAN WILL HOST THE INTERNATIONAL ASTRONAUTICAL CONGRESS (IAC) IN 2024 ▶**



The city of Milan will host the 75th edition of the International Astronautical Congress (IAC) 2024, the most important international event in the space sector



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## SPACE ECONOMY: THE ESA BIC TURIN OPENS THE CALL TO SUPPORT SPACE RELATED STARTUPS

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11 November 2021

A

The launch and the technological and business development of new innovative companies in the Space Economy sector is the main purpose of the **ESA Business Incubation Centre Turin** (ESA BIC Turin), which **officially inaugurates its activities with an opening ceremony** at the Polytechnic of Turin and **with the launch of the first call dedicated to the most promising startups in the space sector** who want to receive support from this new incubation centre and become part of its ecosystem.

ESA BICs are incubators for startups that operate in the space field, they are the result of an initiative funded by National Agencies, in Italy by the Italian Space Agency (ASI), with a co-investment by the local partner, integrated into the European network of ESA countries.

The ESA BIC Turin was born thanks to the synergy between the Incubator of the Polytechnic of Turin **I3P**, the Polytechnic of Turin and the LINKS Foundation, which together won the selection made by ESA, on a mandate from ASI for the construction and the management of this new centre.

The activities, carried out in coordination with ASI and ESA, aim to offer to the selected startups opportunities for technological development, business coaching and mentoring, legal advice related to the protection of intellectual property rights, access to capital for growth and integration into the Italian and European industrial system. In Italy, the ESA BIC Turin will join the already operational ESA BIC Lazio.

The centre will be able to count on the consolidated experience of **I3P** in the world of innovative startups, on the strong scientific skills of the technological partners and on the support of a large team of local representatives in the institutional, industrial and financial sphere. In particular, funding will be complemented by local Partners.

B



**B**

The center will also see the involvement of numerous financial operators active in different stages of development of startups, with the aim of offering investment opportunities from seed money to capital for growth and internationalization.

The Club degli Investitori, LIFTT, RedSeed, the aerospace fund Primo Space, NEVA Sgr, RIF-T, Finpiemonte Partecipazioni, CDP Venture Capital and Intesa San Paolo Innovation Center have chosen to support the project. In particular, the Intesa San Paolo group will make available specific credit lines for new companies incubated in the center.

**Giuseppe Scellato, President of I3P and coordinator of ESA BIC Turin** explains: "The Space Economy represents a field characterized by significant potential repercussions in various industrial sectors through the development of new products, services and business models based on the use of space data and infrastructures. New startups can contribute significantly to this process. The ESA BIC Turin's goal is to create value for the incubated startups, through strategic support and connection with industrial, financial and research organizations".

**Guido Saracco, Rector of the Polytechnic of Turin**, adds: "Aerospace is one the core areas of PoliTO actions planned for the upcoming years. Our goal is to set up a series of development and innovation districts in Torino, its metropolitan area and Piedmont Region. They would be based on the presence of public and private entities, from start-ups to SMEs and large firms. In this framework, the ESA BIC Turin project will be key to encourage innovation and boost the entire sector".

"We are proud to have been involved in an initiative with such high strategic value for our country and a strong impact on the development of the territory" continues **Marco Mezzalama, President of the LINKS Foundation**. "LINKS, through its researchers, has always worked in the field of space applications, thanks to its experience in over 20 years of activity at national and international level. ESA BIC Turin represents an opportunity with high added value for different stakeholders, from students and researchers, to institutions, to businesses, creating an important element in the innovation chain. We are therefore happy to be able to provide incubated start-ups with our know-how".

**Mauro Piermaria, Head of Innovation and New Space Economy of ASI** comments: "The Italian Space Agency, on the matter of the commercialization connected to the space, is at the forefront of the European panorama. Our role, in addition to finance some projects, must be the fundamental one of designing an integrated architecture of all the Space Economy initiatives promoted by national ASI and within ESA, and to develop a system that collaborates with Public Institutions and models of partnership with private individuals, for their greater effectiveness".

**C**

**Stefan Gustafsson ESA BICs Network Manager** comments: "We are very happy to welcome I3P and Polytechnic of Turin as our new partners in the ESA BIC network. The new ESA BIC is also an opportunity for Turin to position itself even stronger as a hub for innovation and space related activities. I would also like to highlight the importance of the ESA BIC network itself. While ESA BIC Turin now can tap into the resources of a pan-European network of ESA BICs, Technology Transfer Brokers and ESA Business Application Ambassadors, the rest of the network also has a new partner with unique capabilities. Together we create Europe's future in space".

**Roberto Cossu, ESA Space Solutions Country Manager for Italy** says: "We welcome ESA BIC Turin in the ESA Space Solutions Network. This centre will be a great opportunity for the Italian space-related ecosystem. Thanks to the support of the Italian Space Agency, this is the second ESA BIC active in Italy, with ESA BIC Lazio already operating since 2009. ESA Space Solutions is present in the Country also with a Business Application Ambassador Platform. All together they will support Italian start-ups and SMEs to develop business using space technologies and data."

### The call for startups

There will be **three annual startup selections** that the center will lead in collaboration with the European Space Agency and the Italian Space Agency

The ESA BIC Turin will support new companies based on space technologies, with applications both **upstream** (communication systems, satellites, software for space mission control) and **downstream** (application of data and space technological solutions in other sectors such as environmental monitoring, mobility, logistics, precision agriculture).

The startups admitted to the incubation program will receive a financial contribution of **€ 50,000** for the product development and the intellectual property management. In addition, it will provide business coaching and mentoring services, technological support, fundraising support and access to ESA BIC Turin's extensive partner network, that includes large companies, investment funds and research institutions.

The first selection of startups will close on the 25th of February 2022. The website [www.esabic-turin.it](http://www.esabic-turin.it) contains all the information relating to the services offered and the application process.

**D**





designed to provide multiple entry points such as ESA Business Incubation Centres (ESA BICs), ESA Technology Transfer Broker Network, ESA Business Application Ambassadors and the ESA Business Applications programme. It can also support ideas of transferring space technology into non-space markets or vice versa.

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THURSDAY 09 DECEMBER 2021

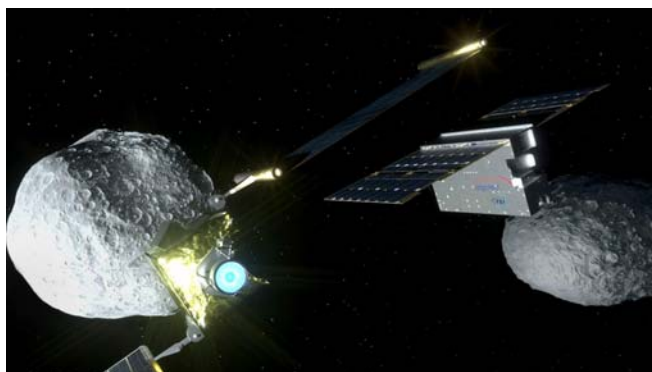
### **IXPE MISSION: NASA AND ITALIAN SPACE AGENCY STILL TOGETHER IN SPACE, WITH INFN AND INAF'S MADE IN ITALY TECHNOLOGY ►**



The space telescope, with three important, made in Italy instruments aboard, was launched at dawn. It will conduct studies based on X-ray polarimetry

WEDNESDAY 24 NOVEMBER 2021

### **LICIACUBE FLIES WITH DART TOWARDS THE ASTEROID. AN ITALIAN SPECIAL ENVOY TO THE DEEP SPACE ►**



The deep space journey of the Italian Space Agency's satellite has started. The satellite was developed and manufactured by Argotec, which will be tasked with acting as a photojournalist for the American probe DART, which will in about a year will smash into Didymos, the smallest of the binary asteroids

MONDAY 22 NOVEMBER 2021

### **THE ITALIAN SPACE AGENCY COMPLETES THE NEW NATIONAL GNSS FRAME NETWORK ►**





The new network was built by e-GEOS (Telespazio/ASI) and is set to provide up-to-date, high-precision geodetic information through the signals generated by the satellite navigation systems

FRIDAY 29 OCTOBER 2021

## MILAN WILL HOST THE INTERNATIONAL ASTRONAUTICAL CONGRESS (IAC) IN 2024 ▶



The city of Milan will host the 75th edition of the International Astronautical Congress (IAC) 2024, the most important international event in the space sector



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# **ALLEGATO B – esercizi pratici**

## **Traccia 1**

(EXCEL) Dati tre prodotti a scelta del candidato, identificati con “Numero d’ordine”, “Descrizione”, “Quantità” e “Prezzo unitario”, calcolarne il costo complessivo.

## **Traccia 2**

(EXCEL) Dati cinque soggetti, a scelta del candidato, identificati con tre colonne costituite da “Nome”, “cognome” e “Numero di stanza”, ordinare il tutto per Numero di stanza”, “Cognome” e “Nome”.

## **Traccia 3**

(EXCEL) Scrivere una qualsiasi formula excel in grassetto in una cella e predisporre il foglio per la stampa orizzontale su A4, avente:

come intestazione, il nome del foglio di calcolo;

come piè di pagina, il numero di pagina insieme al numero complessivo delle pagine.

## **Traccia 4**

(EXCEL) Inserire un grafico di LINEE 2D costituito da tre coppie di valori generici.

## **Traccia 6**

(WORD) Inserire una tabella con cinque righe e tre colonne, avente, centrate e in grassetto, le intestazioni “codice”, “descrizione” e “prezzo”.

## **Traccia 8**

(WORD) Scrivere due paragrafi a caso di tre righe ognuno, impostando il secondo paragrafo su due colonne.

## **Traccia 9**

(WORD) Scrivere un breve testo suddiviso in tre paragrafi aventi titolo 1 e ripartiti su tre pagine.