

| LARGE GRANTS                             |                     |                                                                                                                                                                                |                 |           |
|------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|
| #                                        | Nome                | Titolo                                                                                                                                                                         | Fondi assegnati | Punteggio |
| 1                                        | Paolo Saracco       | SHARP - A near-IR multi-mode spectrograph for MORFEO@ELT                                                                                                                       | 190.000         | 54.3      |
| 2                                        | Alessandra De Rosa  | The Quest for dual and binary massive black holes in the gravitational wave era                                                                                                | 200.000         | 52.7      |
| 3                                        | Federico Lelli      | TRICEPS: luminous and dark matter in massive galaxies at z=4-5                                                                                                                 | 190.000         | 51.6      |
| 3                                        | Mario Pasquato      | ANIMA (Astronomy with Natively Interpretable MACHine learning)                                                                                                                 | 200.000         | 51.6      |
| 5                                        | Teresa Fornaro      | Laboratory investigations to assess the astrobiological relevance of the Martian samples collected on Mars by the NASA Mars 2020 Perseverance rover for future return to Earth | 190.000         | 51.0      |
| 6                                        | Juan Alcalà         | SKYWALKER: Spectral Key features of Young stellar objects: Wind-Accretion LinKs Explored in the infraRed                                                                       | 190.000         | 50.9      |
| 7                                        | Paola Santini       | UNDUST: UNveiling the Dawn of the Universe with JWST                                                                                                                           | 190.000         | 50.3      |
| 8                                        | Maura Pilia         | COordinated Multiwavelength Exploration of FAst Radio bursts (COMEFAR)                                                                                                         | 200.000         | 49.9      |
| 9                                        | Silvia Piranomonte  | Envisioning Tomorrow: prospects and challenges for multi-messenger astronomy in the era of Rubin and Einstein Telescope                                                        | 197.000         | 49.5      |
| 10                                       | Gian Israel         | Timing the Ultra-Luminous X-ray Pulsars (TULiP)                                                                                                                                | 166.250         | 48.6      |
| 11                                       | Gaetano Scandariato | Exoplanetary RECOgnition (ExoREC): Exoplanetary signals RECOgnition for the PLATO mission by means of machine learning                                                         | 188.000         | 48.1      |
| 11                                       | Leo Girardi         | Adding incompleteness and crowding errors to the LSST Data Releases                                                                                                            | 189.050         | 48.1      |
| 13                                       | Maria C. De Sanctis | Vesta Space Weather: a synergic approach for the unusual space weather at 4 Vesta                                                                                              | 171.000         | 47.7      |
| 14                                       | Piero Diego         | Planetary Plasma Monitor                                                                                                                                                       | 190.000         | 47.4      |
| 15                                       | Giorgio Lanzuisi    | The DEepest study of LUMinous QSOs in X-ray at z=2-7 (DELUX): SMBH feeding and feedback from Cosmic Dawn to Cosmic Noon                                                        | 185.250         | 47.1      |
| Budget stanziato (3.000.000 Euro) TOTALE |                     |                                                                                                                                                                                | 2.836.550       |           |

## GUEST OBSERVER GRANTS (NORMAL)

| #  | Nome                 | Titolo                                                                                                                                | Fondi assegnati | Punteggio |
|----|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|
| 1  | Alessandro Papitto   | Polarized X-rays from an accreting millisecond pulsar: a pathway to the equation of state of neutron stars (PULSE-X)                  | 50.000          | 50.50     |
| 2  | Piergiorgio Casella  | Black Hole Jet Launching Physics with JWST                                                                                            | 50.000          | 50.25     |
| 2  | Giulia Migliori      | X-ray observations of Fast Blue Optical Transients at very late times                                                                 | 49.000          | 50.25     |
| 4  | Sergio Fabiani       | A multi frequency spectro-polarimetric campaign to explore spin and geometry in Low Mass X-ray Binaries                               | 50.000          | 50.00     |
| 5  | Linda Podio          | ICES: Tracking the history of ices from the cradles of planets to comets                                                              | 50.000          | 49.00     |
| 6  | Nicola La Palombara  | The binary pulsar 4U 0728-25 in the context of the persistent BeXRBs                                                                  | 5.000           | 48.75     |
| 7  | Davide Perna         | VST Asteroid Survey                                                                                                                   | 50.000          | 48.50     |
| 8  | Sandro Mereghetti    | Toward Neutron Stars unification                                                                                                      | 48.000          | 48.25     |
| 9  | Monica Orienti       | Active or relics? The life cycle of relativistic jets in active galactic nuclei                                                       | 50.000          | 48.00     |
| 9  | Mariachiara Rossetti | Extended Radio Emission in Galaxy Clusters at deep focus with MeerKAT                                                                 | 46.000          | 48.00     |
| 11 | Fabrizio Bocchino    | Pre-supernova outbursts in Galactic Red Supergiants: predicting the next Galactic SN event                                            | 50.000          | 47.80     |
| 12 | Giustina Vietri      | LBT investigation of Winds & Outflows in luminous QSOs at cosmic noon (LBT-WOW)                                                       | 50.000          | 47.75     |
| 12 | Michele Cantiello    | Advancing Cosmological Distance Measurements through JWST: Stellar Population Distance Indicators - TRGB and SBF Setting the Standard | 23.000          | 47.75     |
| 14 | Francesca Panessa    | RADIO EMISSION AND WINDS FEEDBACK IN QUASARS                                                                                          | 49.000          | 47.50     |
| 15 | Alberto Cappi        | Towards anchoring the mass scale of galaxy clusters with galaxy kinematics                                                            | 50.000          | 47.20     |
| 15 | Giovanni Cresci      | A JWST/MIRI MIRACLE: Mid-IR Activity of Circumnuclear Line Emission                                                                   | 50.000          | 47.20     |
| 15 | Daniela Carollo      | Search for chemical fingerprints of the FIRST STARS in extremely metal poor CEMP-no stars                                             | 50.000          | 47.20     |

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|-----------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------|------------------|-------|
| 18                                                                          | Andrea Giannetti    | Closing the Circle: The First High-Resolution Panoramic View of the Milky Way Disk                                           | 50.000           | 46.60 |
| 18                                                                          | Simona Paiano       | Probing the nature of extragalactic $\gamma$ -ray sources.                                                                   | 50.000           | 46.60 |
| 20                                                                          | Antonio Stamerra    | Discovering the New TeV Frontier of Gravitational Wave Counterparts through Follow-up Observations with the MAGIC Telescopes | 50.000           | 46.50 |
| 21                                                                          | Leslie Hunt         | The JWST high-resolution view of low-metallicity dwarf starbursts                                                            | 50.000           | 46.40 |
| 22                                                                          | Ignazio Pillitteri  | X-ray stellar cycles and their influence on exoplanets                                                                       | 15.000           | 45.00 |
| 23                                                                          | Maria Bernardini    | Betting on Electromagnetic Transients in X-rays during O4b (BETs X O4b)                                                      | 50.000           | 44.75 |
| 24                                                                          | Marco Castellano    | Reveiling the nature of bright galaxies at cosmic dawn with deep JWST spectroscopy                                           | 50.000           | 43.67 |
| 25                                                                          | Mariateresa Fiocchi | INTEGRAL view of the Galactic Plane                                                                                          | 28.000           | 43.60 |
| 26                                                                          | Eros Vanzella       | Mapping Star Cluster Feedback in a Galaxy 450 Myr after the Big Bang                                                         | 48.000           | 43.40 |
| 27                                                                          | Fabrizio Fiore      | Quasar host galaxies at Cosmic dawn                                                                                          | 44.500           | 42.75 |
| 27                                                                          | Serena Benatti      | ArMS: the Ariel Masses Survey Large Program at the TNG                                                                       | 50.000           | 42.75 |
| 27                                                                          | Ivan Delvecchio     | U-JOIN: Unveiling the Jet-Outflow Interplay in Normal galaxies                                                               | 48.000           | 42.75 |
| <b>Budget stanziato (iniziale: 1.250.000; finale 1.303.500 Euro) TOTALE</b> |                     |                                                                                                                              | <b>1.303.500</b> |       |

## GUEST OBSERVER GRANTS (LARGE)

| # | Nome                                          | Titolo                                                                          | Fondi assegnati | Punteggio |
|---|-----------------------------------------------|---------------------------------------------------------------------------------|-----------------|-----------|
| 1 | Simone Antonucci                              | GO SHARK! A GTO grant for SHARK-VIS at LBT                                      | 100.000         | 51.125    |
| 2 | Isabella Prandoni                             | MeerKAT and Euclid Team up: Exploring the galaxy-halo connection at cosmic noon | 100.000         | 49.875    |
| 3 | Marco Mignoli                                 | SQUEEzE: the Study of the QUasar Environment at Early-z Epoch                   | 100.000         | 49.000    |
| 4 | Andrea Melandri                               | Exploitation of optical and near-infrared follow-up data of Gamma-ray Bursts    | 100.000         | 48.750    |
| 5 | Francesco Borsa                               | Strengthening pylons for BRIDGES                                                | 100.000         | 48.250    |
|   | <b>Budget stanziato (500.000 Euro) TOTALE</b> |                                                                                 | <b>500.000</b>  |           |

## DATA ANALYSIS GRANTS

| # | Nome                                          | Titolo                                                                                             | Fondi assegnati | Punteggio |
|---|-----------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------|-----------|
| 1 | Francesca Zambon                              | Spectral Units Mineralogy tOol (SUMO)                                                              | 30.000          | 48.40     |
| 2 | Emanuele D'Alessandro                         | 3D globular cluster core kinematics at sub-arcsec scale: the ultimate quest for IMBHs              | 36.000          | 48.20     |
| 3 | Alessandro Marconi                            | Accurate measurements of metallicity in galaxies with a new approach to photoionization modelling. | 50.000          | 47.40     |
| 4 | Beatrice Bucciarelli                          | New Astro-Photometric Calibration of Historical Photographic Observations                          | 31.000          | 47.35     |
| 5 | Maria E. Palumbo                              | Database of laboratory spectra of ices for the analysis of JWST data                               | 48.000          | 46.90     |
| 6 | Paolo D'Avanzo                                | Probing into the Multi-Messenger Universe with Short Gamma-Ray Bursts                              | 33.000          | 46.75     |
|   | <b>Budget stanziato (250.000 Euro) TOTALE</b> |                                                                                                    | <b>228.000</b>  |           |

## THEORY GRANTS

| #  | Nome                   | Titolo                                                                                                                                            | Fondi assegnati | Punteggio |
|----|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|
| 1  | Massimo Meneghetti     | Probing Dark Matter and Galaxy Formation in Galaxy Clusters through Strong Gravitational Lensing                                                  | 50.000          | 288       |
| 2  | Olga Cucciati          | SMILE - Simulating Matter Interactions in the Lineage of Environments                                                                             | 50.000          | 282       |
| 3  | Giovanni Morlino       | Star Clusters As cosmic Ray FACToriEs II (SCARFACE 2)                                                                                             | 49.600          | 271       |
| 4  | Franco Vazza           | A new numerical view of the cycle of relativistic electrons in clusters of galaxies                                                               | 50.000          | 267       |
| 5  | Lorenzo Pino           | 2DISCHEM                                                                                                                                          | 50.000          | 266       |
| 5  | Paolo Ventura          | AGB stars through the JWST lens: tools for dust production and SFH studies                                                                        | 35.000          | 266       |
| 7  | Marco Limongi          | Massive stars as cosmic clocks: shaping the evolution of infant galaxies                                                                          | 50.000          | 265       |
| 8  | Francesco Calura       | Magnetohydrodynamic Simulations of Galactic Molecular Clouds: Resolving Stellar Birth and Proto-planetary Discs with an Enhanced Chemical Network | 50.000          | 263       |
| 9  | Fabrizio Tavecchio     | Understanding polarization in blazars: an MHD-PIC study of jet recollimation shocks (POLARSHOCK)                                                  | 50.000          | 259       |
| 10 | Stefano Etti           | Constraining the non-thermal pressure in galaxy clusters with high-resolution X-ray spectroscopy                                                  | 50.000          | 258       |
| 11 | Michelangelo Formisano | Thermophysical modeling of Permanently Shadowed Regions (PSRs) on Moon and Mercury                                                                | 50.000          | 257       |
| 12 | Stefano Borgani        | Black Hole Dynamics and Galaxy Formation from Cosmological Simulations                                                                            | 50.000          | 254       |
| 13 | Emiliano Merlin        | FORECASTing the Universe as observed by ELT                                                                                                       | 40.000          | 246       |
| 14 | Daniele Galli          | PIPID: Probing Ionisation Processes In Discs                                                                                                      | 50.000          | 230       |
| 15 | Lorenzo Lovisari       | Fe-L complex in galaxy groups: gift or curse?                                                                                                     | 48.000          | 226       |
| 16 | Alessandra Migliorini  | FLU-OHM: Fluorescence OH/OD Model for Cometary Observations applied to CUBES/VLT                                                                  | 47.000          | 226       |

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|--------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------|----------------|-----|
| 17                                                                       | Alessandro Bemporad  | Simulations of Sun-to- Earth Propagation of Solar Eruptions (SSEPSE-2)                         | 50.000         | 218 |
| 18                                                                       | Alexandra Parmentier | Modeling of the Impact of ionizing Radiation bursts on the Earth's Top-side Ionosphere (MIRTI) | 50.000         | 206 |
| <b>Budget stanziato (iniziale: 1.250.000; finale 1196.5 Euro) TOTALE</b> |                      |                                                                                                | <b>869.600</b> |     |

## THECNO GRANTS

| # | Nome                                               | Titolo                                                                                                      | Fondi assegnati | Punteggio |
|---|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------|-----------|
| 1 | Filippo Ambrosino                                  | Chasing the optical counterpart in FRBs and Magnetars with SiFAP2@TNG and SiFAP-SoFT@Cassini                | 100.000         | 55.20     |
| 2 | Andrea Melis                                       | ItaliaN Single-dish radio telescope enhancement for studying Transients And GRAvitational Waves (INSTAGRAW) | 100.000         | 52.75     |
| 3 | Andrea Cicchetti                                   | Mars Advanced GPR for Helicopter Ice Sounding (MAGHIS)                                                      | 97.000          | 52.33     |
| 4 | Marco Landoni                                      | Artificial Intelligence Assisted Alignment and Integration (A3I)                                            | 100.000         | 51.50     |
| 5 | Michela Uslenghi                                   | CLUMP - Compact, Low power, Ultraviolet Microchannel plate Photon counting detector                         | 100.000         | 51.00     |
|   | <b>Budget stanziato (500.000 Euro)      TOTALE</b> |                                                                                                             | <b>497.000</b>  |           |

## RSN1 MINI-GRANTS

| #  | Nome                  | Titolo                                                                                                                            | Fondi assegnati | Punteggio |
|----|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|
| 1  | Isabella Carucci      | Radio intensity mapping: Modelling and Analysis of its Statistics (RadioMAS)                                                      | 20.000          | 61.0      |
| 2  | Elena Bertola         | Bridging space- and ground-based efforts with JWST and ERIS to resolve AGN-driven ionized winds up to the onset of cosmic dawn    | 20.000          | 60.0      |
| 3  | Vittorio Ghirardini   | Probing gravity using galaxy clusters                                                                                             | 20.000          | 59.5      |
| 4  | Mario Llerena Ona     | Galaxies in the epoch of Reionization and their analogs at lower redshift                                                         | 16.000          | 58.7      |
| 5  | Akke Viitanen         | AGILE: AGN In the LSST Era v2.0                                                                                                   | 15.000          | 57.7      |
| 6  | Peter Watson          | Spatially-Resolved Near-IR Emission of Intermediate-Redshift Jellyfish Galaxies                                                   | 20.000          | 57.0      |
| 7  | Gabriele Riccio       | Extragalactic Distances from Surface Brightness Fluctuations: a precise and accurate methodology for the next generation surveys. | 20.000          | 56.7      |
| 8  | Lorenzo Piga          | Accelerating cosmological simulations with deep LEarning techniqueS (ALES)                                                        | 20.000          | 56.3      |
| 9  | Chiara Stuardi        | Exploring intergalactic magnetic fields to unveil the cosmic web                                                                  | 18.000          | 55.7      |
| 10 | Evangelos Paspaliaris | Dust emission and optical extinction as gas tracers in star forming galaxies                                                      | 18.000          | 55.3      |
| 11 | Francesco Salvestrini | ECHOS: Early Coevolution of Host-galaxies and SMBHs                                                                               | 20.000          | 54.0      |
| 12 | Livia Vallini         | RISE: Resolving the ISM and Star formation in the Epoch of Reionization                                                           | 19.000          | 53.5      |
| 13 | Daniela Vergani       | VITAL (Voids Interpretation Through mAchine Learning approach)                                                                    | 19.300          | 53.0      |
| 13 | Viviana Casasola      | DustPedia meets Metal-THINGS: Dust-METAL                                                                                          | 20.000          | 53.0      |
| 15 | Marcella Longhetti    | 4MOST- StePS: a Stellar Population Survey using 4MOST@VISTA                                                                       | 12.000          | 52.7      |
| 16 | Roberto Gilli         | The hidden growth of SMBHs from cosmic dawn to cosmic noon                                                                        | 16.000          | 51.5      |
| 16 | Gianluca Castignani   | Galaxy Evolution in Distant Clusters (GEDiC)                                                                                      | 6.000           | 51.5      |
| 15 | Fabio Fontanot        | The effect of a variable IMF on Galaxy Evolution and Assembly: from the local to the high-z Universe.                             | 17.000          | 51.5      |

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|----|-----------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------|------|
| 19 | Tiziana Venturi                               | HI-GaLESS - Tracing Galaxy Evolution in the Shapley Supercluster with neutral hydrogen                 | 20.000         | 51.0 |
| 19 | Antonello Calabro                             | Probing the physical properties of galaxies in the early Universe with JWST spectroscopic observations | 18.000         | 51.0 |
| 21 | Anna Feltre                                   | The pc-scale view of HII regions in M33                                                                | 20.000         | 50.5 |
| 22 | Filippo Maccagni                              | MAGNHIFFIC - MeerKAT AGN HI Feeding & Feedback Investigation Close-by                                  | 20.000         | 50.0 |
| 22 | Roberto Decarli                               | The interstellar medium at high redshift                                                               | 17.000         | 50.0 |
| 24 | Davide Sciotti                                | Cosmological parameters' uncertainties in the Stage IV Era                                             | 16.000         | 49.0 |
| 25 | Laura Bisigello                               | Super-MIGHTEE and SPRITZ: paving the road to SKA                                                       | 15.000         | 48.7 |
|    | <b>Budget stanziato (445.000 Euro) TOTALE</b> |                                                                                                        | <b>442.300</b> |      |

## RSN2 MINI-GRANTS

| #  | Nome                 | Titolo                                                                                                                                      | Fondi assegnati | Punteggio |
|----|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|
| 1  | Cristobal Bordiu     | Multiwavelength study of a hidden population of radio shells discovered by MeerKAT                                                          | 17.000          | 58.50     |
| 2  | Riccardo Spinelli    | PROBING HELIUM DEPLETION IN OUTFLOWING EXOPLANET ATMOSPHERES                                                                                | 19.000          | 57.75     |
| 3  | Elenia Pacetti       | GROGU: GRain Growth Unit for JADE                                                                                                           | 20.000          | 56.83     |
| 4  | Domenico Barbato     | A multi-technique reassessment of exoplanetary demographics                                                                                 | 20.000          | 56.17     |
| 5  | Giulia Piccinini     | Planetary Systems Architecture with Jovian planets (JASP)                                                                                   | 20.000          | 55.75     |
| 6  | Victor Almendrosabad | Spectroscopy of Young Brown Dwarfs                                                                                                          | 18.000          | 55.50     |
| 7  | Vikash Singh         | EPSECA project, development of an Exo-Planetary mining and characterization algorithm.                                                      | 19.000          | 54.67     |
| 8  | Chiara Mininni       | ZODYAC: ZOoming in on theDYnAmic of Cores                                                                                                   | 20.000          | 53.17     |
| 9  | Olga Bayandina       | Study of episodic accretion in massive star formation traced by high-frequency masers with the tri-band receivers of the Italian telescopes | 17.000          | 53.00     |
| 10 | Thomas Nony          | MoleculAr ComponEnts of WINds from protoplanetary Disks Unveiled (MACE_WINDU)                                                               | 20.000          | 52.83     |
| 11 | Sylvain Breton       | How the magnetism of young solar-type stars shape their future: Oscillations, dynamo and interactions                                       | 20.000          | 52.50     |
| 12 | Chi Nguyen           | GALoMS – Galactic Archaeology for Low Mass Stars                                                                                            | 20.000          | 50.33     |
| 13 | Eloisa Poggio        | Mapping Waves in the Milky Way                                                                                                              | 20.000          | 48.50     |
| 14 | Camilla Danielski    | BASC – Building the Ariel mission Stellar Catalogue: a public homogeneous catalogue for the whole stellar and exoplanet community           | 20.000          | 47.17     |
| 15 | Francesca Annibali   | The hierarchical assembly of nearby dwarf galaxies with Euclid                                                                              | 19.000          | 46.33     |
| 16 | Jose Schiappacasse   | Globular cluster Exploration with chemical evolution ModelS (GEMS)                                                                          | 20.000          | 46.17     |

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|----|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------|-------|
| 17 | Valentina D'Orazi                                  | M dwarfs in open clusters: Unlikely heroes in the Galactic Saga of fluorine (MUGS)                                              | 17.000         | 46.00 |
| 17 | Kazi Rygl                                          | Toward tri-band maser observations of high-mass star-forming regions                                                            | 20.000         | 46.00 |
| 19 | Vittorio Braga                                     | Immediate exploitation of LSST: RR Lyrae as structure probes of Local Group galaxies                                            | 20.000         | 45.50 |
| 20 | Teresa Giannini                                    | GLORIOUS : Gaia science aLerts tO find eRuptive yOUNg stellar objectS                                                           | 20.000         | 45.25 |
| 21 | Marco Padovani                                     | ExploriNg low-Energy cosmic Rays throuGh theoretical InvestigAtions at INAF (ENERGIA)                                           | 20.000         | 45.00 |
| 22 | Davide Fedele                                      | Seeing the unseen with SKA, how dust grains grow up to be planets (DiSKA)                                                       | 20.000         | 44.83 |
| 23 | Eleonora Loffredo                                  | Advanced Platform for Processing Heavy Element Libraries (APPHEAL)                                                              | 20.000         | 44.67 |
| 24 | Emanuele Spitoni                                   | LEGARE - Linking the chemical Evolution of Galactic discs AcRoss diversE scales: from the thin disc to the nuclear stellar disc | 20.000         | 44.50 |
|    | <b>Budget stanziato (474.000 Euro) .... TOTALE</b> |                                                                                                                                 | <b>466.000</b> |       |

## RSN3 MINI-GRANTS

| #  | Nome                                          | Titolo                                                                                                                                  | Fondi assegnati | Punteggio |
|----|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|
| 1  | Francesco Marchetti                           | Investigating coronal holes' shapes and their relationship with high-speed solar wind streams via topological data analysis             | 20.000          | 61.50     |
| 2  | Silvia Bertoli                                | Multi-approaches analysis on Martian and terrestrial rock glaciers: paleoclimatic implications and evaluation of permafrost behaviour   | 20.000          | 61.00     |
| 3  | Giovanni Munaretto                            | Mars' recent Wetlands : Investigating the Red Planet Habitability and Brine Stability during the last 20 Myrs                           | 17.000          | 60.50     |
| 4  | Filippo Tusberti                              | Unveiling the Secrets of NEAs and Their Parent Bodies: A Surface Lithological Analysis                                                  | 20.000          | 57.50     |
| 5  | Ines Delfino                                  | ASTROcyte nuclei response to ionizing RADiation of SpAce interest observed through changes in their biochemical and mechanical FEatures | 20.000          | 56.50     |
| 6  | Martina Moroni                                | MErcury's Sodium eXosphere (MESEX): comparison of MESSENGER/MASCS data and THEMIS ground based observations                             | 20.000          | 55.50     |
| 7  | Antonio Sepe                                  | Hermean Landslides (HeLa): a global survey and classification of Mercury's mass-wasting processes                                       | 20.000          | 54.00     |
| 8  | Emiliano D'Aversa                             | PLUMES-Planetary fractures Lagrangian simUlations for Multi-component EmissionS                                                         | 20.000          | 53.00     |
| 9  | Melissa Mirino                                | Characterization of Ganymede cryovolcanic Paterae                                                                                       | 20.000          | 51.50     |
| 10 | Natalia Vergara                               | Global classification of Mercury's surface through unsupervised learning techniques to aid the reconstruction of geological maps.       | 20.000          | 50.50     |
| 11 | Pietro Scarica                                | A comparative analysis of Venus and Jupiter polar cyclones                                                                              | 18.300          | 50.00     |
| 12 | Manuela Lippi                                 | ProDisCo 2.0: statistical comparison of molecular abundances in comets and proto-planetary disks                                        | 20.000          | 49.50     |
| 13 | Pamela Cambianica                             | Exploring the influence of regolith on the thermal environment and appearance of Mercury's polar craters                                | 18.500          | 49.00     |
| 14 | Cristina Re                                   | PLanetary image Simulator (PLAS)                                                                                                        | 18.000          | 48.50     |
|    | <b>Budget stanziato (284.000 Euro) TOTALE</b> |                                                                                                                                         | <b>271.800</b>  |           |

## RSN4 MINI-GRANTS

| #  | Nome                                          | Titolo                                                                                                            | Fondi assegnati | Punteggio |
|----|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------|-----------|
| 1  | Antonio Tutone                                | DREAM-XS: Deep Recurrent Analysis and Modeling for X-ray Spectroscopy                                             | 20.000          | 62.00     |
| 2  | Andrea Pavan                                  | End2End - Linking short gamma-ray bursts to coalescing binary neutron stars via relativistic jet simulations      | 20.000          | 60.67     |
| 3  | Elise Egron                                   | Osservazioni radio single-dish e VLBI di sistemi binari X nel contesto di osservazioni simultanee multi-frequenza | 17.500          | 58.00     |
| 4  | Aishwarya Thakur                              | Mobility for GRALE (Gamma-Ray burst Astrophysics with LSST and Einstein Probe)                                    | 20.000          | 57.33     |
| 5  | Roberta Amato                                 | Geometry and Nature Of Super-Eddington Sources (GNOSES)                                                           | 20.000          | 56.50     |
| 6  | Silvia Crestan                                | High energy neutrinos and photons from the PeVatron candidate LHAASO J1908+0621                                   | 10.000          | 56.00     |
| 7  | Cristiana Spingola                            | Preparing for the SKA-VLBI and ngVLA-LONG using strong gravitational lensing                                      | 17.000          | 56.00     |
| 8  | Rocco Lico                                    | Investigate the nature of supermassive binary black holes at the highest spatial resolution                       | 16.000          | 55.67     |
| 9  | Michela Rigoselli                             | Search for hidden neutron stars powering TeV sources                                                              | 14.000          | 54.50     |
| 10 | Martina Cardillo                              | PERLA: Pevatron Emission Relayed LAnguages                                                                        | 20.000          | 53.66     |
| 11 | Maria Baglio                                  | X-BOOM - X-ray Binary Outbursts: an Optical Monitoring                                                            | 20.000          | 53.33     |
| 12 | Emanuele Greco                                | Investigating magnetic turbulence in young Supernova Remnants through X-ray observations                          | 20.000          | 53.33     |
| 13 | Nicola Locatelli                              | Tomography of the hot gas phase of the Milky Way                                                                  | 20.000          | 53.33     |
| 14 | Stefano Giarratana                            | RATTS: RAdio to TeV Transient Sources                                                                             | 20.000          | 52.66     |
| 15 | Marcello Giroletti                            | VLBI towards the SKA era                                                                                          | 20.000          | 52.66     |
| 16 | Guillermo Rodriguez                           | EXTraS 2.0 - Search for pulsations                                                                                | 20.000          | 51.00     |
| 17 | Andrea Rossi                                  | The GRB-KN connection                                                                                             | 16.000          | 50.66     |
|    | <b>Budget stanziato (322.000 Euro) TOTALE</b> |                                                                                                                   | <b>310.500</b>  |           |

## RSN5 MINI-GRANTS

| #  | Nome              | Titolo                                                                                                                                                                | Fondi assegnati | Punteggio |
|----|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|
| 1  | Laura Asquini     | A modular scheduler for ground-based observations                                                                                                                     | 20.000          | 63.00     |
| 2  | Serena Farina     | Wavelength-Shifted Enhanced UV Sensor (WAVE-SENSE)                                                                                                                    | 20.000          | 62.80     |
| 3  | John Rankin       | XXL-WIDE: X-ray eXpanded Lobster Wide field optical Designs for Einstein telescope follow-up                                                                          | 20.000          | 62.20     |
| 4  | Luca Castaldini   | Study and develop an edge computing system FPGA based to acquire and analyze gamma-ray events from scintillator detectors with SiPM using machine learning techniques | 20.000          | 62.00     |
| 5  | Giuseppe Dilillo  | A machine learning framework for reconstructing astrophysical images from coded mask instruments                                                                      | 20.000          | 60.00     |
| 6  | Raffaele Pascale  | RAMSES goes GPU: GPU porting for advanced hydrodynamic simulations of galaxy evolution                                                                                | 19.000          | 59.25     |
| 7  | Matteo D'Ambrogio | Thermomechanical and vibrational study. From simulation to reality                                                                                                    | 20.000          | 59.20     |
| 7  | Manuela Arno      | High resolution VPHGs for next generation MOS optical spectrographs                                                                                                   | 20.000          | 59.20     |
| 9  | Fernando Caro     | Multi-wavelength reprocessing of distant sources to identify blended galaxies and improve high-redshift science galaxy catalogs                                       | 20.000          | 56.80     |
| 10 | Paolo Nogara      | Front-End Electronics Emulator (Emu-FEE)                                                                                                                              | 20.000          | 56.40     |
| 11 | Edoardo Redaelli  | Metal Additive Manufacturing for Optomechanics and Alignment Tool (MAMOAT)                                                                                            | 20.000          | 56.25     |
| 12 | Kamal Sant        | Calibration of Scientific CMOS sensors for the Interferometric Bidimensional Spectrometer2.0 (IBIS2.0)                                                                | 20.000          | 56.00     |
| 13 | Pietro Ferraiuolo | BINCAT - Binary Catalog for AO Systems Performance Evaluation                                                                                                         | 20.000          | 55.80     |
| 14 | Claudio Gheller   | Cosmological Radio Sources Detection and Classification through Visual Transformer based Self Supervised Representation Methods                                       | 20.000          | 54.00     |

|           |                                               |                                                                                                                           |                       |              |
|-----------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|
| 15        | Vincenzo Cotroneo                             | Innovative coatings for high-precision thermal forming                                                                    | 20.000                | 53.50        |
| 16        | Antonino La Barbera                           | Cosmic Ray UNveiling with CHerenkov telescopes (CRUNCH) - Artificial intelligence methods to study cosmic rays with ASTRI | 20.000                | 53.40        |
| 16        | Matteo Menessini                              | SHINE - Space telescope High-precision Ion-beam Nm polishing Equipment                                                    | 20.000                | 53.40        |
| 18        | Giuliano Taffoni                              | Numerical Chaos in Cosmological Simulations                                                                               | 16.000                | 53.00        |
| 19        | Daniele Spiga                                 | AGORA - Alternative to Gold as Release Agent for small Nickel Electroformed Optics                                        | 20.000                | 51.50        |
| 20        | Giuseppe Romeo                                | Augmented Aqueye+: adding an infrared channel to the fast photon counter Aqueye+                                          | 20.000                | 51.25        |
| 21        | Luca Tornatore                                | EE-HPC                                                                                                                    | 19.000                | 50.50        |
| 22        | Ricardo Sanchez                               | MACHETE: Monitoring the Alignment of CHerenkov Telescopes                                                                 | 20.000                | 49.60        |
| 23        | Gabriele Vecchi                               | Development of astronomical mirrors by 3D printing of silica glass                                                        | 20.000                | 49.50        |
| <i>24</i> | <i>Roberto Sordini</i>                        | <i>ARMS: Advanced Resource Management for Space mission scheduler</i>                                                     | <i>20.000</i>         | <i>49.33</i> |
|           | <b>Budget stanziato (474.000 Euro) TOTALE</b> |                                                                                                                           | <b><i>474.000</i></b> |              |

## Allegato 1

| Tipologia           | Progetti Presentati | Max per progetto (Keuro) | Durata Progetto (anni) | Finanziamento Disponibile (Keuro) [ * ] | N.ro Progetti Finanziati | Frazione dei progetti finanziati | Fondi assegnati (Keuro) | Frazione dei fondi assegnati (rispetto alla richiesta integrale) | Avanzo (Keuro) | Percentuale avanzo |
|---------------------|---------------------|--------------------------|------------------------|-----------------------------------------|--------------------------|----------------------------------|-------------------------|------------------------------------------------------------------|----------------|--------------------|
| Large Grants        | 53                  | 200                      | 2                      | 3000                                    | 15                       | 28%                              | 2836.6                  | 28%                                                              | 163.5          | 5%                 |
| GO/GTO Normal       | 37                  | 50                       | 1                      | 1303.5                                  | 29                       | 78%                              | 1303.5                  | 77%                                                              | 0.0            | 0%                 |
| GO/GTO Large        | 13                  | 100                      | <=2                    | 500                                     | 5                        | 38%                              | 500.0                   | 39%                                                              | 0.0            | 0%                 |
| Data Analysis       | 15                  | 50                       | <=2                    | 250                                     | 6                        | 40%                              | 228.0                   | 38%                                                              | 22.0           | 9%                 |
| Theory              | 18                  | 50                       | <=2                    | 1196.5                                  | 18                       | 100%                             | 869.6                   | 100%                                                             | 326.9          | 27%                |
| Techno              | 17                  | 100                      | <=2                    | 500                                     | 5                        | 29%                              | 497.0                   | 30%                                                              | 3.0            | 1%                 |
| Mini Grants RSN1    | 47                  | 20                       | 2                      | 445                                     | 25                       | 48%                              | 442.3                   | 54%                                                              | 2.7            | 1%                 |
| Mini Grants RSN2    | 50                  | 20                       | 2                      | 474                                     | 24                       | 48%                              | 466.0                   | 49%                                                              | 8.0            | 2%                 |
| Mini Grants RSN3    | 30                  | 20                       | 2                      | 284                                     | 14                       | 50%                              | 271.8                   | 47%                                                              | 12.2           | 4%                 |
| Mini Grants RSN4    | 34                  | 20                       | 2                      | 322                                     | 17                       | 49%                              | 310.5                   | 49%                                                              | 11.5           | 4%                 |
| Mini Grants RSN5    | 47                  | 20                       | 2                      | 474                                     | 23                       | 53%                              | 474.0                   | 48%                                                              | 0.0            | 0%                 |
| <b>Totale</b>       | <b>361</b>          |                          |                        | <b>8749</b>                             | <b>182</b>               | <b>51%</b>                       | <b>8199.3</b>           | <b>51%</b>                                                       | <b>549.8</b>   | <b>5%</b>          |
| di cui mini-grant's | 208                 |                          |                        | 1999                                    | 105                      | 50%                              | 1964.6                  | 50%                                                              | 34.4           | 2%                 |

(\*) Il finanziamento originariamente previsto per il bando "GO/GTO normal" ammonta a 1.250.000 Euro; esso si esaurisce coprendo il 62% dell'insieme di tre progetti pari-merito in posizione 27. Sono stati quindi trasferiti 53,5 Meuro dal finanziamento previsto per il bando "Theory Grants" per il quale il 100% delle proposte è stato comunque finanziato.