

AGP 2019 - This list details the projects that were successful in the 2019 Grant Round and is shown in Top, Middle and Bottom Terciles (Institution order). Where several proposals were submitted within an Institution this is identified by a Grant number.

Institution	Project Title
Bath	Growth and evolution of galaxy protoclusters from cosmic dawn to cosmic noon
Cambridge 1	Tidal interactions of stars and exoplanets
Cambridge 2	Understanding the chromosphere-corona interface in the Solar Orbiter and DKIST era.
Durham 1	Towards ultimate DESI accuracy
Durham 1	New pathways to wide-field laser-assisted adaptive optics
Durham 1	A direct measurement of cosmic acceleration
Durham 1	The first two billion years of galaxy formation
Durham 1	The emergence of the Hubble sequence at $z \sim 1.5$ from KMOS and ALMA
Durham 1	Physics of galaxy formation in rapidly star-forming galaxies
Glasgow	Solar flare electron energetics
Leeds 1	Probing the composition of planet-building material with ALMA
Leeds 1	The Inner Accretion Regions and Binary Properties of Massive Young Stars
Leeds 2	High altitude clouds on Mars and Venus
Manchester 2	Reconnection - driven waves and oscillations in the flaring solar corona
Nottingham	Slicing MaNGA Galaxies in Space and Time
Open 1	Jet feedback from galaxy scales to clusters via LOFA surveys
Open 2	Spin induced mass loss and regolith mobility in asteroids
Open 2	Unravelling the history of volatiles in the Moon using melt inclusions and nominally anhydrous minerals
QMUL 2	Planet formation and migration in inviscid protoplanetary discs
QMUL 2	Pushing 21cm to the (statistical) limit: A first EoR detection with an SKA Precursor
QUB 1	New generation sky surveys, exotic transients and gravitational wave sources
Sussex	Cosmology and lensing from Simons Observatory
Warwick 1	Helioseismic insights into the structure of the solar interior and its variation through the solar cycle (Helioseismology)
Warwick 2	Planetary systems around white dwarfs
Warwick 2	White dwarf pulsars and pulsating white dwarfs
Warwick 2	Cosmochronology with Gaia white dwarfs
Armagh	Dissecting the orbital and stellar-population structure of early-type galaxies with MUSE
Cambridge 1	Production of LIGO/Virgo sources in dense stellar clusters
Durham 1	EAGLE XL: simulating galaxy formation across the cosmos
Durham 1	The Milky Way mass to 10% precision
Durham 1	The initial mass function in elliptical galaxies
Durham 1	Testing models of AGN feedback with high resolution X-ray spectra from XRISM
Glasgow	Energetic electrons and the inner heliosphere
Leeds 1	Evaluating the multi-fluid MHD approach for protoplanetary disks

Leeds 1	Formation of silicate dust around the AGB stars
Leeds 1	Disks and Jets in Massive Protostars
Leeds 2	A1 -Modelling meteoric metals in the upper atmosphere of Mars
Manchester 1	Completion & scientific exploitation of the C-Band All-Sky Survey
Manchester 1	Cosmic Magnetism with Phased Array Feeds
Nottingham	Cluster infall regions and filaments with WEAVE
Nottingham	Tracing the small-scale structure of the cosmi web to the edge of reionisation and beyond
Open 2	How and where did Chondrules form?
Portsmouth 1	Pinpointing the Origin of Noisy Compact Binary Mergers
QMUL 2	Constraints on Dark Energy and Modified Gravity using Non-Linear Structures in Cosmology
QUB 2	Small-scale horizontal magnetic fields in the solar photosphere.
QUB 2	High-frequency observations of total solar eclipses.
Sussex	Cluster Cosmology: Game On or Game Over?
Warwick 1	Advanced MHD seismology of the solar corona (Coronal seismology)
Warwick 2	Transforming the interpretation of galaxies with improved stellar population modelling
Warwick 2	Electromagnetic insights into gravitational wave sources
Cambridge 1	Dynamics of young protostellar disks
Durham 1	Optical fibre switchyards
Glasgow	Spectroscopy of the turbulent flare chromosphere
Leeds 1	Measurement and modelling of novel reactions of formamide, a pre-biotic molecule, in star-forming regions
Leeds 1	A systematic study into the conditions for planet formation around stars in the 1.5-3.5Msun range
Manchester 1	Low-frequency Gravitational Wave Astronomy with the Lovell Telescope and MeerTime
Manchester 1	Probing neutron stars and pulsar magnetospheres using MeerTime and the Lovell telescope
Manchester 1	Galactic bulge planetary nebulae
Manchester 1	Low Noise Amplifiers
Manchester 1	Sunyaev-Zeldovich Clusters as a Cosmological Probe
Northumbria	Oscillatory Reconnection: the physics of time-dependent, wave-generating reconnection
Nottingham	WEAVE-LOFAR's view of feeding and feedback in active galaxies
Open 1	The Dispersed Matter Planet Project: Planet Discoveries and Exogeology
Open 2	Mapping impact melt and bouldery ejecta on the Moon with 'Deep Learning'
Open 2	Finding evidence of potential life on the icy moons
Portsmouth 2	Enabling rapid observation of compact binary mergers with a network of gravitational-wave observatories
QMUL 1	Plasma Dynamics of the Inner Heliosphere
QMUL 2	Relativistic effects in large-scale structure
QUB 2	Wave dynamics in the Sun's most powerful magnetic fields.
QUB 1	Recreating accretion-powered X-ray sources in the laboratory
Sussex	HoIMES: Holistic Measurement of Extreme Star Formation

UCL	The composition and internal structure of planetary cores
Warwick 2	Atmospheres of TESS planets at high spectral resolution
Warwick 2	Stellar flares and the habitability of planets around ultracool dwarf stars