

PROYECTOS PROGRAMA "ASTROFÍSICOS RESIDENTES 2022"

ESPECIALIDAD DE INVESTIGACION ASTROFISICA

Nº	DIRECTOR/CO-DIRECTOR/TUTOR	TITULO PROYECTO
1	Director: Dr. Sébastien Comerón Tutor: Dr. Johan Knapen	"The evolution of thick discs seen in deep HST and JWST imaging"
2	Director: Dr. Enric Pallé	"Searching and characterizing earth-like planets with TESS+CHEOPS and CARMENES+ESPRESSO"
3	Director: Dr. Ignacio Trujillo Cabrera	"Constraints to the nature of dark matter using low mass galaxies"
4	Director: Dr. César Esteban López Co-Director: Dr. Jorge García Rojas	"Internal and global properties of local star-forming nebulae (HII regions)"
5	Director: Dr. Alexander Vazdekis Co-Directora: Dra. Anna Ferré Mateu	"Are massive galaxies truly dead? Constraints from the unexplored UV window"
6	Director: Dr. Sergio Simón Díaz	"A large-scale empirical approach to massive star evolution with IACOB, WEAVE and Gaia"
7	Director: Dra. Susana Iglesias-Groth Co-directora: Prof. Rafael Rebolo López	"Amino acids in star-forming regions"
8	Directora: Dra. Alicia López Oramas Co-director: Prof. Ramón García López	"The Galactic gamma-ray sky"
9	Director: Dr. Hans Deeg Co-director: Dr. Hannu Parviainen	"Populations of Extrasolar Planet Systems"
10	Director: Dr. Manuel A. Pérez Torres Co-Director y Tutor: Dr. Pablo Rguez. Gil	"Indirect insights into orbital parameters of low-mass X-ray binary transients"
11	Director: Dr. Ignacio Ferreras Co-director: Dr. Prasenjit Saha (Univ. Zürich)	"The life cycle of galaxies studied through spatial & spectral tomography"
12	Director: Dr. Arturo Manchado Torres Co-directora: Dr. Eva Villaver	"La contribución del hidrógeno molecular a la materia bariónica del universo"
13	Directora: Dra. Giuseppina Battaglia Co-Director: Dr. Guillaume Thomas	"Investigations of dark matter halo properties of Milky Way dwarf galaxies in the Gaia and WEAVE era"
14	Director: Dr. Jorge Sánchez Almeida Co-directora: Dra. Casiana Muñoz Tuñón	"Identifying cosmological gas fuelling star-formation through machine learning techniques"
15	Director: Dr. Chris Brook Co-directora: Dra. Arianna Di Cintio	"Exploring the low surface brightness universe with simulations: confronting cosmology's small scale problems"
16	Director: Dr. J.Alberto Rubiño Martín Co-Director: Dr. Ricardo T. Génova Santos	"Clearing the path to inflation's B-modes through multi-frequency observations of CMB foregrounds from the Teide Observatory"

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17	Directora: Dra. Adriana de Lorenzo Cáceres Co-directora: Dra. Begoña García Lorenzo	"The elusive art of feeding discrete supermassive black holes"
18	Directora: Dra. Elena Khomenko Co-director: Dr. Nikola Vitas	"Waves and Shocks: The non-equilibrium multi-fluid view of the solar chromosphere"
19	Director: Dr. Tobías Felipe García Co-directora: Dra. Elena Khomenko	"Non-ideal effects of partial ionization in solar waves and vórtices"
20	Director: Dr. Hannu Parviainen Co-director y Tutor: Dr. Enric Pallé	"Search of exoplanets around ultra-cool stars from TESS light curves"
21	Director: Dr. Andrés Kovacs Co-director: Dr. Carlos Hdez. Monteagudo	"Probing the nature of gravity in extreme under-dense cosmological regions"
22	Director: Dra. Carme Gallart Co-directores: Dr. Chris Brook y Dr. Tomás Ruiz-Lara	"Unravelling the formation and evolution of the Milky Way disk with Gaia"
23	Director: Dr. Marc Huertas-Company Co-director: Dr. Johan Knapen	"Unveiling the structural transformations of galaxies in the era of Euclid and JWST with Artificial Intelligence"
24	Director: Dr. Carlos Hernández-Monteagudo Co-director: Dr. Jorge Martín Camalich	"Optimizing the Angular Redshift Fluctuations in the Effective Field Theory of Large-Scale Structure"
25	Director: Dr. Johan Knapen Co-director: Dr. Sébastien Comerón	"Understanding gas flows in AGN and starbursts"
26	Directora: Dra. Casiana Muñoz Tuñón Co-director: Dr. Jairo Méndez-Abreu	"Star Formation Near and Far: A case for high-spectral resolution spectroscopy"
27	Director: Dr. Teodoro Muñoz Dárias Co-director: Dr. Daniel Mata Sánchez	"Accretion and outflows in black holes and neutron stars"
28	Director: Dr. Pablo Rodríguez Gil Co-Director: Dr. Boris T. Gänsicke (Univ. Warwick, UK)	"The final fate of planetary systems"
29	Directora: Dra. Begoña García Lorenzo Co-directora: Dra. Cristina Ramos Almeida	"Morpho-kinematic imprints of AGN triggering and feedback"
30	Director: Dr. Javier Trujillo Bueno Co-director: Dr. Ernest Alsina Ballester	"Deciphering the magnetism of the solar chromosphere through theoretical and observational investigations"
31	Directora: Dra. Mireia Nieves Rosillo Co-directora y Tutora: Dra. Mónica Vázquez Acosta	"Radio galaxies as very-high-energy gamma-ray emitters"

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32	Directora: Dra. Josefa Becerra González Co-director: Dr. José A. Acosta Pulido Tutor: Prof. Ramón J. García López	"Exploring the extreme extragalactic gamma-ray sky through relativistic jets"
33	Director: Dr. Robert J.J. Grand Co-director: Dr. Claudio Dalla Vecchia Tutor: Dra. Giuseppina Battaglia	"Unravelling the nature of dark matter from galaxy mergers and globular clusters using cosmological magnetohydrodynamical simulations"
34	Directora: Dra. Almudena Prieto	"The nearest Supermassive Black Holes: approaching their radius of influence with the first granted JWST data"
35	Director: Prof. John E. Beckman Co-directores: Dra. Almudena Prieto y Dr. J.A. Fernández Ontiveros	"Star Formation next to a Black Hole"
36	Director: Dr. Helmut Dannerbauer Co-director: Dra. Carlos Gutiérrez de la Cruz	"Shedding light on the evolution of galaxies at various environments in the early universe"
37	Directora: Dra. Cristina Ramos Almeida Co-directores: Dr. José A. Acosta Pulido	"The impact of AGN feedback in galaxy evolution"
38	Director: Dr. Francisco Shu Kitaura Joyanes Co-Director: Dr. Marc Huertas Company Tutor: Prof. Rafael Rebolo López	"Cosmology and Neuroscience"
39	Director: Guillaume Thomas Co-directores: Dra. Giuseppina Battaglia y Robert Grant Tutor: Dra. Giuseppina Battaglia	"Probing the distribution of dark matter in the Milky Way galaxy and its sub-systems with stellar streams and their progenitors"
40	Director: Dr. Jairo Méndez Abreu Co-directora: Dra. Adriana de Lorenzo-Cáceres Rodríguez	"Building the giants"
41	Directora: Dra. Julia de León Cruz Co-director: Dr. David Morate González	"Connecting worlds: outer-belt asteroid families and main belt comets"
42	Director: Dr. Carlos M. Gutiérrez de la Cruz	"A panchromatic approach to the dust content of galaxy clusters"
43	Director: Dr. Carlos Allende Prieto	"Uncovering the relics of the Milky Way formation with the Dark Energy Spectroscopic Instrument"

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44	Director: Dr. Andrés Balaguera Antolínez Co-director: Dr. Francisco S. Kitaura Joyanes Tutor: Dr. José A. Rubiño Martín	"Simulating the Large Scale Structure of the Universe"
45	Director: Dr. Daniel J. Lennon Co-director: Prof. Artemio Herrero Davó	"Looking for progenitors of massive stellar black holes: Is there evidence of homogeneous chemical evolution in metal poor galaxies?"
46	Director: Prof. Artemio Herrero Davó	"The life channels and fate of the most massive stars"
47	Director: Dr. Claudio Dalla Vecchia Co-director: Dr. Andrea Negri Tutor: Dr. Jorge Sánchez Almeida	"Cosmological simulations with GPU-accelerated radiative transfer"
48	Director: Dr. Jonay I. Glez. Hdez. Co-director: Dr. Carlos Allende Prieto	"Unveiling the early phases of the Galaxy: search and characterization of the most primitive stars"