

PROYECTOS PROGRAMA "ASTROFÍSICOS RESIDENTES 2022"

ESPECIALIDAD DE INVESTIGACION ASTROFISICA

Nº	DIRECTOR/CO-DIRECTOR/TUTOR	TITULO PROYECTO
1	<b>Director:</b> Dr. Sébastien Comerón <b>Tutor:</b> Dr. Johan Knapen	"The evolution of thick discs seen in deep HST and JWST imaging"
2	<b>Director:</b> Dr. Enric Pallé	"Searching and characterizing earth-like planets with TESS+CHEOPS and CARMENES+ESPRESSO"
3	<b>Director:</b> Dr. Ignacio Trujillo Cabrera	"Constraints to the nature of dark matter using low mass galaxies"
4	<b>Director:</b> Dr. César Esteban López <b>Co-Director:</b> Dr. Jorge García Rojas	"Internal and global properties of local star-forming nebulae (HII regions)"
5	<b>Director:</b> Dr. Alexander Vazdekis <b>Co-Directora:</b> Dra. Anna Ferré Mateu	"Are massive galaxies truly dead? Constraints from the unexplored UV window"
6	<b>Director:</b> Dr. Sergio Simón Díaz	"A large-scale empirical approach to massive star evolution with IACOB, WEAVE and Gaia"
7	<b>Director:</b> Dra. Susana Iglesias-Groth <b>Co-directora:</b> Prof. Rafael Rebolo López	"Amino acids in star-forming regions"
8	<b>Directora:</b> Dra. Alicia López Oramas <b>Co-director:</b> Prof. Ramón García López	"The Galactic gamma-ray sky"
9	<b>Director:</b> Dr. Hans Deeg <b>Co-director:</b> Dr. Hannu Parviainen	"Populations of Extrasolar Planet Systems"
10	<b>Director:</b> Dr. Manuel A. Pérez Torres <b>Co-Director y Tutor:</b> Dr. Pablo Rguez. Gil	"Indirect insights into orbital parameters of low-mass X-ray binary transients"
11	<b>Director:</b> Dr. Ignacio Ferreras <b>Co-director:</b> Dr. Prasenjit Saha (Univ. Zürich)	"The life cycle of galaxies studied through spatial & spectral tomography"
12	<b>Director:</b> Dr. Arturo Manchado Torres <b>Co-directora:</b> Dr. Eva Villaver	"La contribución del hidrógeno molecular a la materia bariónica del universo"
13	<b>Directora:</b> Dra. Giuseppina Battaglia <b>Co-Director:</b> Dr. Guillaume Thomas	"Investigations of dark matter halo properties of Milky Way dwarf galaxies in the Gaia and WEAVE era"
14	<b>Director:</b> Dr. Jorge Sánchez Almeida <b>Co-directora:</b> Dra. Casiana Muñoz Tuñón	"Identifying cosmological gas fuelling star-formation through machine learning techniques"
15	<b>Director:</b> Dr. Chris Brook <b>Co-directora:</b> Dra. Arianna Di Cintio	"Exploring the low surface brightness universe with simulations: confronting cosmology's small scale problems"
16	<b>Director:</b> Dr. J.Alberto Rubiño Martín <b>Co-Director:</b> 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	<b>Directora:</b> Dra. Adriana de Lorenzo Cáceres <b>Co-directora:</b> Dra. Begoña García Lorenzo	"The elusive art of feeding discrete supermassive black holes"
18	<b>Directora:</b> Dra. Elena Khomenko <b>Co-director:</b> Dr. Nikola Vitas	"Waves and Shocks: The non-equilibrium multi-fluid view of the solar chromosphere"
19	<b>Director:</b> Dr. Tobías Felipe García <b>Co-directora:</b> Dra. Elena Khomenko	"Non-ideal effects of partial ionization in solar waves and vórtices"
20	<b>Director:</b> Dr. Hannu Parviainen <b>Co-director y Tutor:</b> Dr. Enric Pallé	"Search of exoplanets around ultra-cool stars from TESS light curves"
21	<b>Director:</b> Dr. Andrés Kovacs <b>Co-director:</b> Dr. Carlos Hdez. Monteagudo	"Probing the nature of gravity in extreme under-dense cosmological regions"
22	<b>Director:</b> Dra. Carme Gallart <b>Co-directores:</b> Dr. Chris Brook y Dr. Tomás Ruiz-Lara	"Unravelling the formation and evolution of the Milky Way disk with Gaia"
23	<b>Director:</b> Dr. Marc Huertas-Company <b>Co-director:</b> Dr. Johan Knapen	"Unveiling the structural transformations of galaxies in the era of Euclid and JWST with Artificial Intelligence"
24	<b>Director:</b> Dr. Carlos Hernández-Monteagudo <b>Co-director:</b> Dr. Jorge Martín Camalich	"Optimizing the Angular Redshift Fluctuations in the Effective Field Theory of Large-Scale Structure"
25	<b>Director:</b> Dr. Johan Knapen <b>Co-director:</b> Dr. Sébastien Comerón	"Understanding gas flows in AGN and starbursts"
26	<b>Directora:</b> Dra. Casiana Muñoz Tuñón <b>Co-director:</b> Dr. Jairo Méndez-Abreu	"Star Formation Near and Far: A case for high-spectral resolution spectroscopy"
27	<b>Director:</b> Dr. Teodoro Muñoz Dárias <b>Co-director:</b> Dr. Daniel Mata Sánchez	"Accretion and outflows in black holes and neutron stars"
28	<b>Director:</b> Dr. Pablo Rodríguez Gil <b>Co-Director:</b> Dr. Boris T. Gänsicke (Univ. Warwick, UK)	"The final fate of planetary systems"
29	<b>Directora:</b> Dra. Begoña García Lorenzo <b>Co-directora:</b> Dra. Cristina Ramos Almeida	"Morpho-kinematic imprints of AGN triggering and feedback"
30	<b>Director:</b> Dr. Javier Trujillo Bueno <b>Co-director:</b> Dr. Ernest Alsina Ballester	"Deciphering the magnetism of the solar chromosphere through theoretical and observational investigations"
31	<b>Directora:</b> Dra. Mireia Nieves Rosillo <b>Co-directora y Tutora:</b> Dra. Mónica Vázquez Acosta	"Radio galaxies as very-high-energy gamma-ray emitters"

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

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