

Cycle XXXIV Astrophysics (1 November 2018 – 31 October 2021)

Antonio PENSABENE (borsa INAF-OAS) antonio.pensabene2@unibo.it

Title: Quasars at the dawn of Cosmic Time

Supervisors: DeCarli (Docente UNIBo di riferimento: Brusa)

Caterina CARAVITA caterina.caravita2@unibo.it

Title: Dynamical modeling of stellar populations and dark matter in early-type galaxies

Supervisors: Ciotti/Pellegrini

Alice MINELLI alice.minelli4@unibo.it

Title: The chemical composition of the closest Milky Way satellites: Magellanic Clouds and Sagittarius

Supervisors: Mucciarelli

Deborah COSTANZO quirino.damato2@unibo.it

Title: Probing inflows and outflows in local Seyferts and in high-redshift quasars

Supervisors: Vignali

Quirino D'AMATO (borsa INAF-IRA) deborah.costanzo2@unibo.it

Title: Opening a new window on the early stages of SMBH and galaxy evolution with multi-band observations

Supervisors: Prandoni (Docente UNIBO di riferimento: Vignali)

Cristiano FANELLI (Borsa INAF-FRONTIERA) cristiano.fanelli3@unibo.it

Title: High resolution spectroscopy of stellar populations in the era of extreme large telescopes

Supervisors: Romano (Docente UNIBO di riferimento: Mucciarelli)

Matteo BILLI (Borsa INAF-OAS) matteo.billi3@unibo.it

Title: Polarised CMB anisotropies: the search for new physics

Supervisors: Gruppuso (Docente UNIBO di riferimento: Moscardini)

Nadia BIAVA (Borsa ERC - DRAONEL) nadia.biava2@unibo.it

Title: Study of new particle acceleration mechanisms in galaxy clusters through low frequency radio observations

Supervisors: Bonafede

Serena BANFI (Borsa ERC- MAGCOW) serena.banfi2@unibo.it

Title: Microscopic aspects of the acceleration of radio emitting electrons by cosmic shocks

Supervisors: Vazza

Sofia CONTARINI sofia.contarini3@unibo.it

Title: Towards a full cosmological exploitation of cosmic voids

Supervisors: Moscardini/Marulli

Alessandro FRANCO a.p.franco@gmx.com (Cotutela: Universita di Nizza)

Title: Gravitational lensing equations for multi-messenger astronomy: an application to galaxy clusters.

Supervisors: Maurofordato (Francia)/Moscardini (UNIBO)

Cycle XXXIII Astrophysics (1 November 2017 – 31 October 2020)

Federica Loiacono

federica.loiacono2@unibo.it

Title: The molecular gas content of galaxies up to $z \sim 4$ in the ALPINE survey

Supervisors: Cimatti

Carlo Cannarozzo carlo.cannarozzo3@unibo.it

Title: Merger-driven evolution of early-type galaxies: kinematics and effective stellar initial mass function

Supervisors: Nipoti

Chiara Stuardi (Borsa ERC) chiara.stuardi2@unibo.it

Title: "Magnetic _field amplification by shocks in galaxy clusters

Supervisors: Bonafede

Alessandro Ignesti alessandro.ignesti2@unibo.it

Title: Interaction between radio plasma and hot gas in galaxy clusters

Supervisors: Gitti

Francesco Salvestrini francesc.salvestrin2@unibo.it

Title: Black hole accretion and its effects on the ISM

Supervisors: Vignali

Nicola Locatelli (borsa ERC) nicola.locatelli2@unibo.it

Title: Detecting the radio signal from cosmic filaments

Supervisors: Vazza

Matteo Braglia (borsa INAF-IASF) matteo.braglia2@unibo.it

Title: Combining current and future CMB observations with galaxy surveys

Supervisors: Finelli – (docente UNIBO di riferimento: Moscardini)

Giacomo Girelli (Borsa INAF-OSS) giacomo.girelli2@unibo.it

Title: Virtual Euclid mock Catalogues: properly simulating galaxy properties for an optimal scientific exploitation of the Euclid mission.

Supervisor: Pozzetti/Bolzonella (docente UNIBO di riferimento: Cimatti)

Giovanni Sabatini (Borsa INAF-IRA) giovanni.sabatini4@unibo.it

Title: "Establishing a timeline for the high-mass star formation process"

Supervisors: Brand / Giannetti (docente UNIBO di riferimento: Giovannini)

Jorge Enrique Garcia Farieta. (co-tutela Univ. Colombia)

joegarciafa@unal.edu.co

Constraints on alternative cosmological models from clustering and redshift-space distortions

Supervisors: Rigoberto Casa Miranda (Universidad Nacional de Colombia, Bogota')

L. Moscardini (UNIBO)

Cycle XXXII Astrophysics (1 October 2016 – 30 September 2019)

Cecilia Bacchini

cecilia.bacchini@unibo.it

Title: **Gas cycle in spiral galaxies: from accretion to star formation and back.**

Supervisors: Nipoti/Fraternali (co-tutela con Univ. Groningen (Olanda))

Raffaele Pascale

raffaele.pascale2@unibo.it

Title: **"Dynamical and chemo-dynamical models of dwarf spheroidal galaxies"**

Supervisors: Carlo Nipoti

Silvia Raso

silvia.raso2@unibo.it

Title: **"Measuring the dynamical evolution of dense stellar systems from the properties of Blue Straggler Stars"**

Supervisors: Ferraro, Lanzoni

Riccardo Nanni (borsa INAF)

riccardo.nanni7@unibo.it

Title: **Understanding the formation of the first black holes: deep observations of the most distant QSOs**

Supervisors: Roberto Gilli (docente UNIBO di riferimento: Vignali)

Matilde Mingozi (borsa INAF)

matilde.mingozi2@unibo.it

Title: **Seyfert galaxies under the MUSE microscope: detailed accretion and star formation physics in local Seyfert galaxies with MUSE@ESO-VLT**

Supervisors: Cresci, Mannucci, (docente UNIBO di riferimento: Brusa)

Beatrice Terni De Gregory (borsa INAF)

beatrice.ternide@unibo.it

Title: **Tomography and radio emission in CLASH Clusters and Frontier Fields. From the large scale structure to the inner regions**

Supervisors: Nonino, Venturi (docente UNIBO di riferimento: Dallacasa)

Ilaria Ruffa (senza borsa)

ilaria.ruffa@unibo.it

Title: **The AGN fueling/feedback cycle and its role in galaxy evolution**

Supervisors: Prandoni/ Laing (docente UNIBO di riferimento: Giovannini)

Massimo Persic (persic@oats.inaf.it) **proroga dal Ciclo 31**

Title: **Spectral-spatial distribution of energetic particles in galaxy clusters.**

Supervisors: Gabriele Giovannini, Yoel Rephaeli