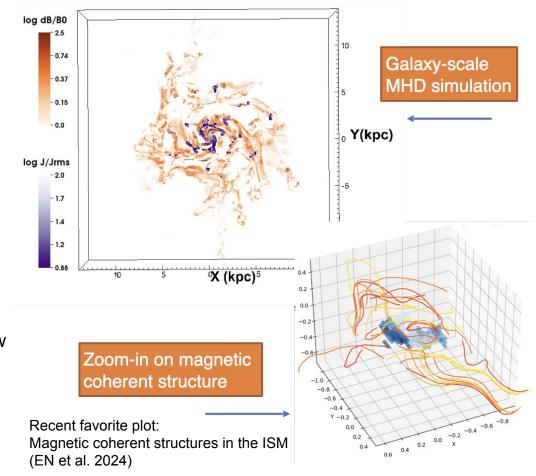
Scientific Interests:

- MHD numerical simulations
- Interstellar turbulence
- Star formation and feedback
- Galactic dynamos

Brief CV:

PhD: 2012 from LMU Munich 2012-2017 CEA (Saclay) 2017-2020 FORTH (Heraklion) Marie Curie fellow 2020-2023 SNS (Pisa) 2023-onwards Assistant Professor at SNS (Pisa)



Scientific interest :

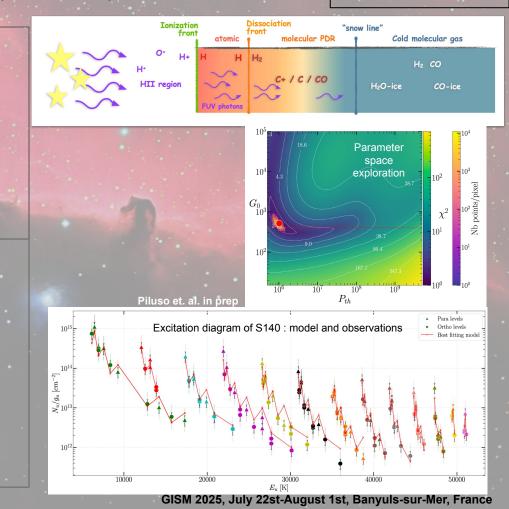
- ☐ Stellar formation and feedback
- Radiative transfer (emission, absorption lines,...)
- ☐ Thermal processes
- Advanced modeling (Photon Dominated Regions)
- Quantum excitation and chemistry of molecules
- Neural networks & Deep learning

Brief CV

- Currently: 1st year of PhD
- M2 Astronomy & Astrophysics (Paris)
- Engineering school of Mines Nancy

Fields of work:

- ★ Interstellar physics :
 - O Modeling of PDRs
 - Observations at IRAM 30m
- ★ Plasma physics:
 - O EMHD solar plasma simulations



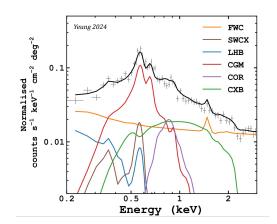
Elisa Lentini, I NAF-Osservatorio astronomico di Brera Italy

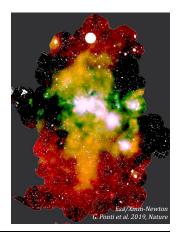
elisa.lentini@inaf.it

Scientific Interests:

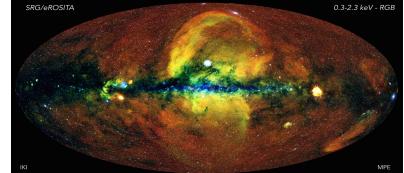
Diffuse emission of the Galactic Center and Galactic Disc in the X-ray band:

- thermal structure, the composition and evolution of the **ISM**:
- galactic outflows;
- the relationship between the hot ISM, the galactic corona and the Circum Galactic Medium.





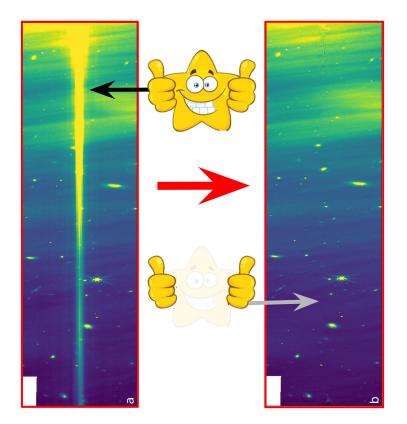
- currently: 1st of PhD, Insubria University & INAF Institute
- ☐ master's degree at the University of Genova (Italy)
- **□** bachelor's degree at the University of Genova (Italy)



Guillaume Vigoureux 1st yr PhD student, with B. Godard @ LPENS (Paris)

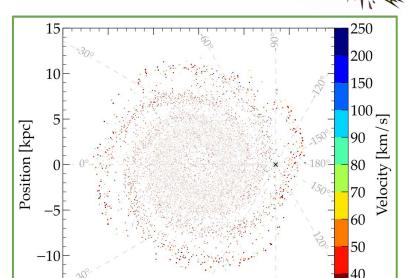
guillaume.vigoureux@phys.ens.fr

Can help with: **PSF spike removal**



Interested in: Supernova remnants:

- -> galactic distribution
- -> modeling



Position [kpc]









soeding@physik.rwth-aachen.de laurinsoeding.de

Laurin Söding

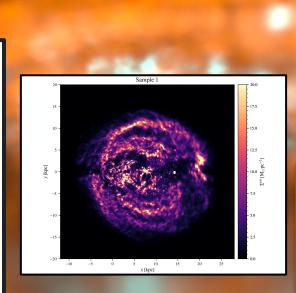
Institute for Theoretical Particle Physics and Cosmology

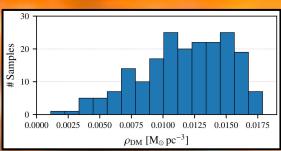


Final-year PhD student

I work on:

- The 3D Milky Way
 - Gas clouds
 - Dark matter
 - Velocity field
 - 0 .
- Statistical Methods
 - Bayesian (Variational)
 Inference







My job is to build statistical models → nice fits + interpretable values.

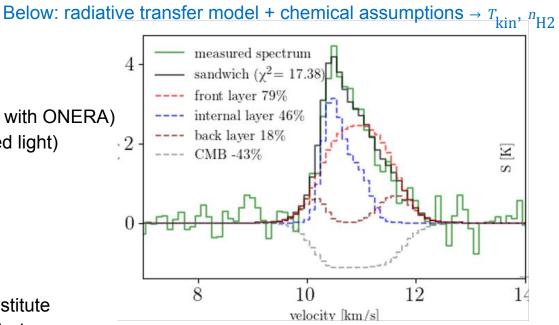
Scientific Interests:

Data science applied to different fields:

- Astrophysics (Orion B consortium)
- Acoustic (Total, CEA, Naval Group)
- RADAR (vegetation height estimation with ONERA)
- Optics (coherence of partially polarized light)

Brief CV:

PhD: 2003 from Gipsa-lab (Grenoble) 2003-2005 CEA (Bruyères-le-chatel) 2005-2022 Centrale Marseille & Fresnel Institute 2022-onwards Professor at université de Toulon in charge of a Master in signal processing



Decomposition of a spectrum with contributions from both internal & external layers in a dense core of the Horsehead

Recent favorite plot: Fit of a sandwich model (SEGAL et al. 2025)

Emmanuel Dartois, Institut des Sciences Moléculaires d'Orsay, France

emmanuel.dartois@universite-paris-saclay.fr

Scientific Interests:

- Physico-chemistry of interstellar medium Galactic and extragalactic
- Circumstellar discs and protosolar nebula
- Laboratory experiments:
 Interstellar and interplanetary dust analogues energetic sources of evolution
- Astronomical observations
- Dust models

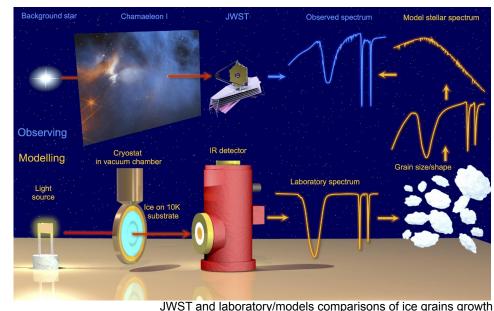
Brief CV:

PhD: 1998 Institut d'Astrophysique Spatiale / Univ. Pierre & Marie Curie 1999-2000 Post-doc @IRAM (Grenoble, Fr) 2001-2002 CNES Post-doc @IAS (Orsay, Fr) 2002-2017 CNRS researcher @ IAS (Orsay, Fr) 2018-Onward CNRS researcher @ ISMO (Orsay, Fr)





How I look like in the Visible/ in the IR



(«Spectroscopic sizing of interstellar icy grains with JWST », Nature Astronomy 2024)

Donatella Romano, INAF-Osservatorio di Astrofisica e Scienza dello Spazio, Italy

Scientific Interests:

- Galaxy formation and evolution
- Chemical evolution of galaxies
- Stellar evolution and nucleosynthesis
- First stars
- Stellar feedback

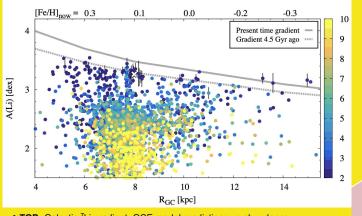
Brief CV:

PhD: 2002 from SISSA Trieste

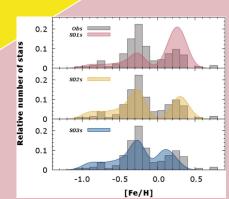
2003-2010: post doc @ Osservatorio Astronomico di

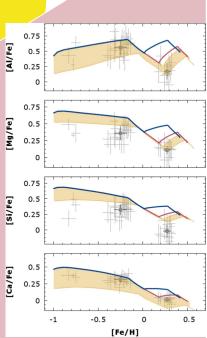
Bologna

2011-now: Research staff at INAF-OAS Bologna



◆ **TOP:** Galactic ⁷Li gradient. GCE model predictions vs abundance measurements in field stars and open clusters (Gaia-ESO Survey iDR6; Romano et al. 2021 [A&A, 653, A72])





donatella.romano@inaf.it

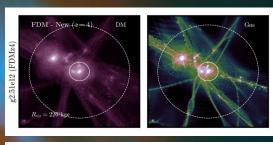
RIGHT: Modeling the chemical enrichment history of the "Bulge fossil fragment" Terzan 5 (Romano et al. 2023 [ApJ, 951, 85])

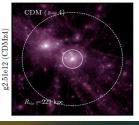
Leen Alrawas, New York University - Abu Dhabi, United Arab Emirates



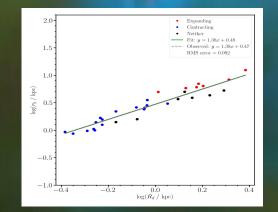
Scientific Interests:

- Galaxy formation and evolution
- Dark matter models (e.g., CDM, FDM)
- Stellar and AGN feedback mechanisms
- High-resolution hydrodynamical simulations
- Numerical methods in computational astrophysics









Brief CV:

3rd year PhD student at NYU - Abu Dhabi Member of CASS (Center of Astrophysics and Space Science) at NYUAD

2023 - 1st year of PhD courses at NYU - New York

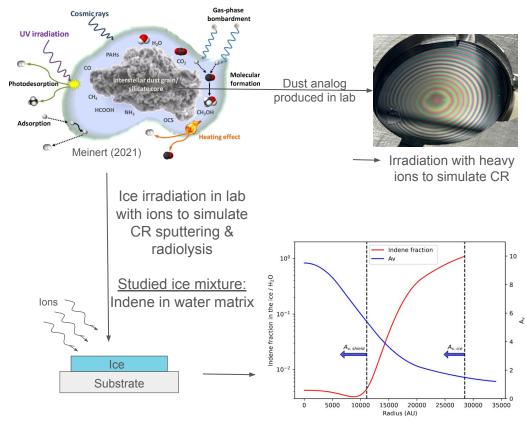
2023 - Bachelor's of Science in Physics at UAEU



Scientific Interests:

- Cosmic Rays in ISM
 - o Interaction with dust grains & ices
 - Sputtering efficiency and radiolysis of species
- Laboratory astrophysics
 - Dust grain analogs
 - UHV setups + irradiation of interstellar analogs
- ISM chemistry
- Observational astronomy

- Currently: 1st year PhD student
- Masters in Astrophysics at Aix-Marseille Université



Expected indene fraction in the ice phase wrt water in TMC-1

Anna McLeod

Associate Prof @ Durham Uni (UK)

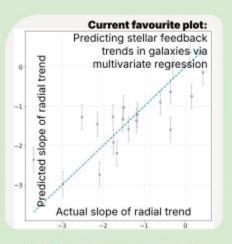
My path

BSc @ LMU Munich	2011
MSc @ Radboud Uni	2013
PhD @ ESO Garching	2016
RSNZ Marsden Fellow @ UC Canterbury	2017-18
NASA Hubble Fellow @ UC Berkeley	2018-2020
Prof @ Durham Uni	2020 -

Other stuff I like

- Endurance sports
- · Physics of endurance sports
- Really long endurance events (you get the gist)







Nearby galaxies Resolved stellar populations Galaxy evolution

I also work on...

- astrophysical jets
- ISM shocks
- star formation-driven galaxy outflows
- decentralizing research
- outreach & public engagement

Frédéric GALLIANO, 15Mologist

(CEA Paris-Saclay, France)

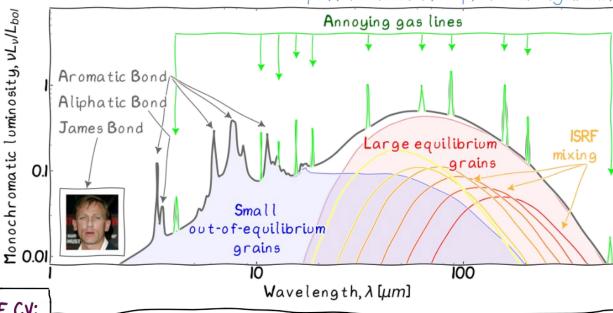
frederic.galliano@cea.fr https://irfu.cea.fr/Pisp/frederic.galliano/

SCIENTIFIC INTERESTS:

- ISMism. IR-to-mm observations.
- Cosmic nanoparticles (fancy way to say "dust") & their evolution.
- Love dwarf galaxies. Afraid of AGNs.
- Bayesian methods. Minimal computing (Xterm, emacs, e basta).

A dwarf galaxy





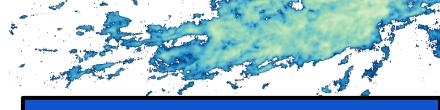
• 2000-2004: PhD student @ CEA Saclay

- 2004–2008: Postdoc @ NASA/GSFC & UMd
- 2009 prospet: CNPG responsible & CEA Pross God
- 2008-present: CNRS researcher @ CEA Paris-Saclay
- 2015-present: recovering IDLholic (5 years without starting a .pro file)
 2022-present: director of the Grad. School of Physics / Astro @ UPSaclay
- 2025: GISM3 accountant, travel agent, freelance embassy attache, etc.



Lori Porter Columbia University, NYC

astrolori.com lep2176@columbia.edu



GALFA-HI observations of the Smith Cloud

Interested in:

- Galaxy formation and evolution
- Star formation, quenching, feedback
- Simulations and theory
- Baryon cycle

2023-present: PhD at Columbia University Advisor: Greg Bryan

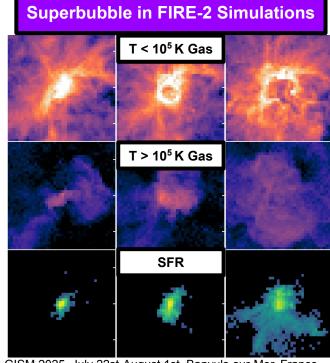
2021-2024: Guest Researcher/Intern at the Flatiron Institute's Center for Computational Astrophysics

2023: B.S. in Physics from University of Louisville

Also interested in science policy and outreach!



Advocating for astronomy funding, April 2025, Washington, D.C.



Ziming Peng 4th year PhD candidate @CUHK (Hong Kong) working w/ Renbin Yan

I work on:

- Metallicity calibrations in H II regions
- Scaling relations of nearby galaxies

Also interested in:

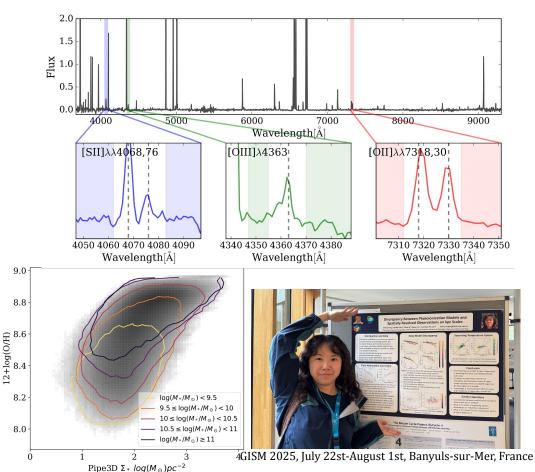
- Quenching mechanism
- Gas properties in galaxies
- Statistical methods applications

(((Also interested in hiking and watersports)))

My path:

2022-now PhD @CUHK 2018-2022 BSc @USTC (China)

International Summer School on the ISM of Galaxies

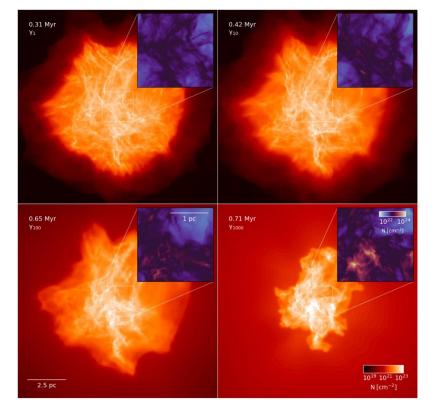


Scientific Interests:

- Molecular cloud formation
- Star formation
- Stellar feedback
- Astrochemistry
- Pop. III star formation

Brief CV:

PhD: 2002 from University of Edinburgh 2002-2005 Postdoc, AMNH, New York 2005-2008 Postdoc, AIP Potsdam 2023-onwards Staff scientist (Heidelberg)



Recent favorite plot:

Structure of star-forming clouds in different galactic environments (Cusack et al. 2025)

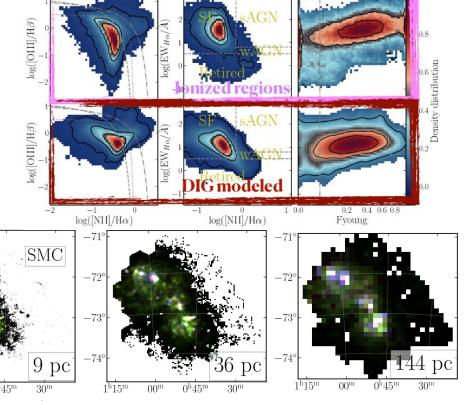
Alejandra Z. Lugo Aranda, UNAM-Ensenada aluqo@astro.unam.mx

My scientific interests:

- HII regions and DIG
- Chemical composition of the ISM
- Star formation (different environments)

Background:

- PhD (2020-2024 at UNAM)
 Extragalactic HII regions with MUSE
- Postdoc (2025 March-Today)
 Magellanic system with
 LVM



International Summer School on the ISM of Nearby Galaxies 2025

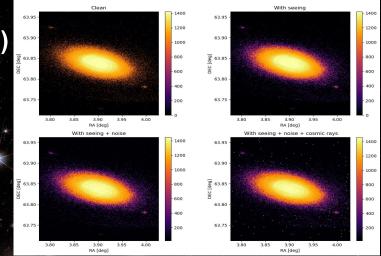
(J2000)

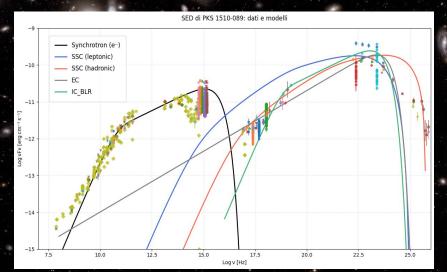
Maddalena Barile, University of Genoa (Italy)

Scientific Interests

- generation of realistic galaxy images from data of simulations as Illustris TNG
- modelling of blazar emission through the study of their SEDs
- fascinated by the the co-evolution of AGNs and their host galaxy

- currently: just completed 1st year of Master' program in Astrophysics and Cosmology at the University of Genoa
- Bachelor's degree in Physics from the University of Genoa, thesis on "Atmospheric Optics"





Devismita Panda, 2nd Year PhD @Laboratoire d'Astrophysique De Bordeaux (LAB), France devismita.panda@u-bordeaux.fr Supervised by: Dr. Timea Csengeri

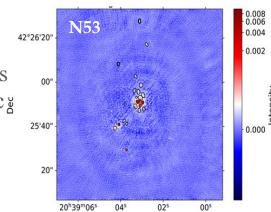
Thesis Focus

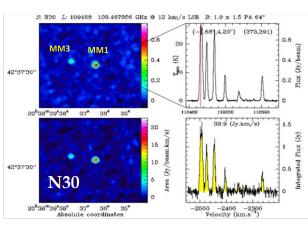
- Chemical and physical conditions for formation of complex organic molecules (COMs)
- ☐ Spatial segregation of O- and N-bearing COMs

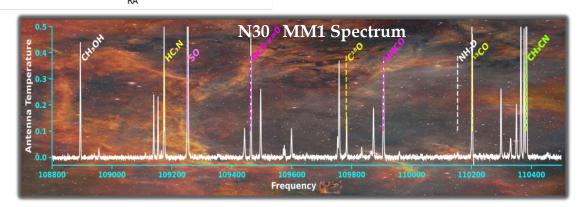
We use data from NASCENT-stars large program

Scientific Interests

- ☐ Massive star formation processes
- Chemical complexity in protostellar environments
- ☐ Influence of physical conditions on molecular evolution







GISM 2025, July 21st-August 1st, Banyuls-sur-Mer, France

Taavishi Jindel, McMaster University, Canada

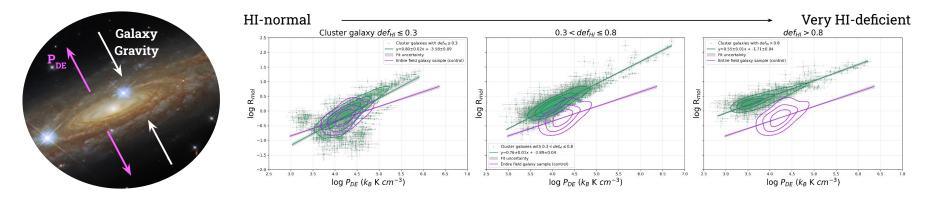
Supervisor: Christine Wilson jindelt@mcmaster.ca



Research Interests: Connecting large-scale galaxy environment to small-scale star formation physics

- Molecular and atomic gas
- Star formation regulation
- Galaxy clusters and environment

- Dynamical equilibrium pressure (P_{DF})
- Multiwavelength ISM observations



CV: First-year PhD student at McMaster University (Canada); MSc (McMaster); BSc (Hons) in Physics (Yale-NUS College, Singapore)



Ivan Gerasimov, Université Côte d'Azur, France

E-mail: <u>ivan.gerasimov@oca.eu</u>

Scientific interests:

- Stellar feedback at small scales
- Extreme environments and objects
- Chemical evolution of galaxies

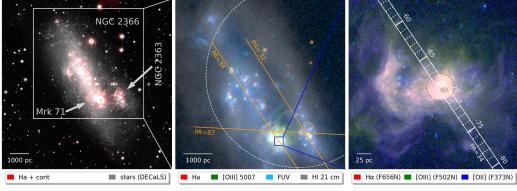
Brief CV:

2024-2027: PhD @ UCA

2018-2024: BSc+MSc, LMSU,

Russia,

NGC 2366 is a dwarf galaxy with SSC and ~kpc-scale outflow





PHANGS: A large multi-wavelength survey of nearby galaxies to study small scale physics

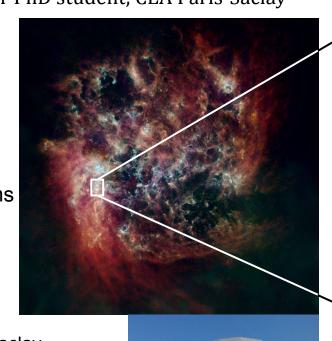
Léo Belloir (leo.belloir@cea.fr)

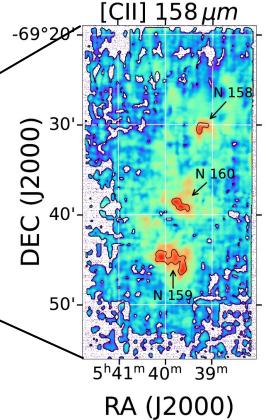
1st year PhD student, CEA Paris-Saclay

Scientific interests:

- Interstellar dust
- Bayesian statistics
- Multi-wavelength observations
- Nearby galaxies

- 2024-2027 : PhD @ CEA Paris-Saclay
- 2023-2024 : Master 2 @ Paris Observatory
- 2021-2023 : Bachelor + Master 1 @ Sorbonne University





Saurav Sen, PhD, Tata Institute of Fundamental Research Mumbai India Supervisor: Prof. Bhaswati Mookerjea

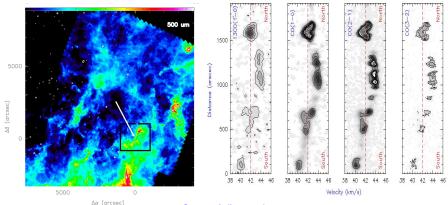


savsen1394@gmail.com saurav.sen@tifr.res.in

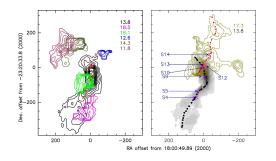
Scientific Interests:

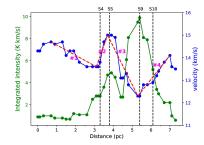
Studying high mass star formation in Hub-Filament Systems.

- Study filamentary structures, kinematics of the natal gas and embedded protostellar cores using multiple line tracers like CO (& isotopes), HCO⁺, N₂H⁺, SO, CH₃CN etc.
- Modelling of spectra to deduce physical structures and parameters.
- Exploring effect of environment on kinematics and star formation in HFSs. Eg: Inner and Outer Galaxy.
- \circ Deriving physical properties of these regions such as N(H $_{\rm 2})$ and T $_{\rm dust}$ using above mentioned lines and far-infrared continuum data.
- Using radio continuum data to explore the H II regions formed by the massive star forming sites.

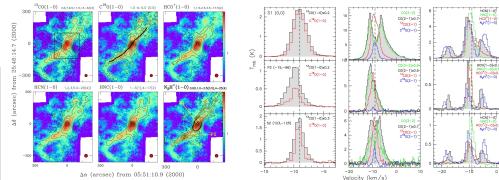


Sen et al. (in prep.)





Sen et al. 2024



Mookerjea et al. (in prep.)

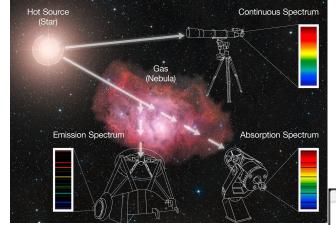
- PhD at TIFR Mumbai, India.
- Masters in Science, Physics, Pondicherry University, India.
- Bachelors in Science & Education, Bhubaneswar, India.

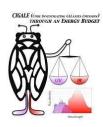
Patrice Theulé

associate professor, Aix-Marseille University patrice.theule@univ-amu.fr

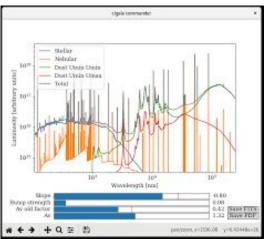
Scientific interests:

- extragalactic ISM
- galaxy evolution
- multi-wavelength spectroscopy
- laboratory astrophysics





- PhD, Ecole Polytechnique Fédérale de Lausanne
- post-doctorat, Havard-Smithonian Center for Astrophysics
- research habilitation, Aix-Marseille University
- presently, Laboratoire d'Astrophysique de Marseille



Zorayda Martinez, University of Texas at Austin (US) 2nd year graduate student Advisor: Danielle Berg



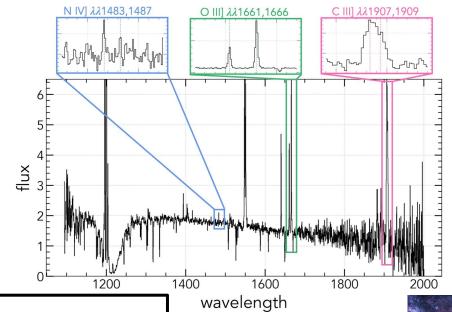
Scientific Interests:

zorayda@utexas.edu

- UV+optical spectroscopy
- chemical abundances in galaxies
- ionized gas properties across across cosmic time

Current Projects:

- impacts of extreme densities on observed gas properties
- C/O abundances in CLASSY



- 2023 present: PhD in Astronomy at University of Texas at Austin
- 2019 2023: BS in Physics at East Texas A&M University



Eric Emsellem



Astronomer / Head of ESO Project Science

Scientific Interests: constrain physical processes that drive the formation and evolution of galaxies, scale-coupling, galactic dynamics

Tools and Methods

Instrumentation ⇒ Integral-field spectroscopy

Observations ⇒ Nearby galaxies, dynamics, stellar populations

Modeling ⇒ Dynamics / morphology

Simulations ⇒ Hydro-dynamical runs (mostly RAMSES)

Codes \Rightarrow e.g., MGE, pymusepipe, pPXF, pipelines

Projects, e.g.:

Sauron, Atlas^{3D} Phanas

Condor, Geckos, MAUVE

MUSE, WST

My Path

1990 ⇒ Engineering degree

1990 ⇒ PhD in Lyon

1994 ⇒ Post-Docs in Leiden (NL) + Munich (DE)

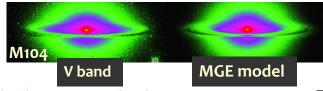
1997 + 2006 ⇒ Assoc. + full Astronomer at CRAL – Lyon

2009 ⇒ Head of the ESO Office for Science (Garching, Germany)

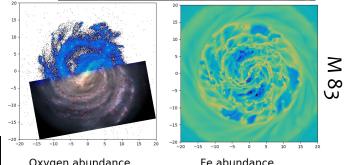
2020 ⇒ Head of ESO Project Science

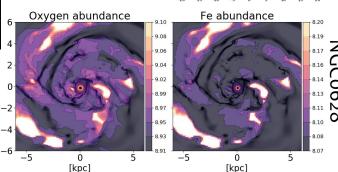
Hobbies

Scuba diving, Photography Music, Science-fiction lit.









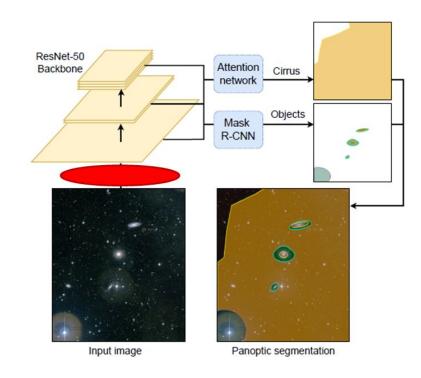
Scientific Interests:

Data science applied to different fields, mostly physics:

- Astrophysics (Matlas and Euclid consortium)
- Solar physics
- Planetology
- Oceanography

Brief CV:

PhD: 2013 from University of Bristol (UK) 2013-2016 postdoc, University of Bristol 2016-2018 Research lecturer, Swansea University (UK) 2018-onwards Associate professor at université de Toulon



Panoptic Segmentation of Galactic Structures in LSB Images (Richards et al. 2023)

Hao Zhang 1st year PhD student, Laboratoire d'Astrophysique de Marseille hao.zhang@lam.fr Supervisor: Dr. Patrice Theulé

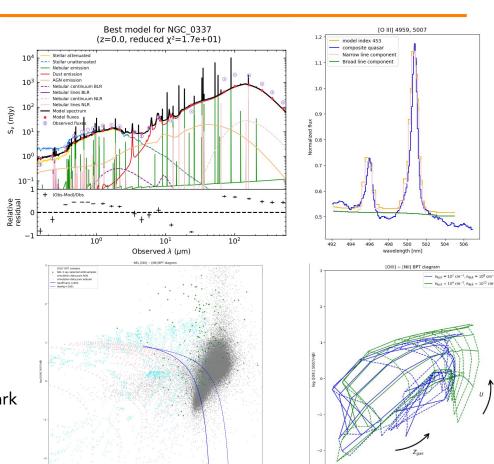
I'm working on:

- · Adding AGN contribution module in Spectral fitting code CIGALE
- · Effects of the X-ray and UV spectrum of AGN accretion disk and corona on emission lines

Interested in:

- · high-z galaxy evolution
- · Multi-wavelength galaxy spectrum simulation and analysis
- · Data Analysis and Machine Learning

- 2017 2021, Bsc, Nankai University, China
- 2021 2023, Msc, University of Copenhagen, Denmark
- 2024 current, PhD student, LAM, France



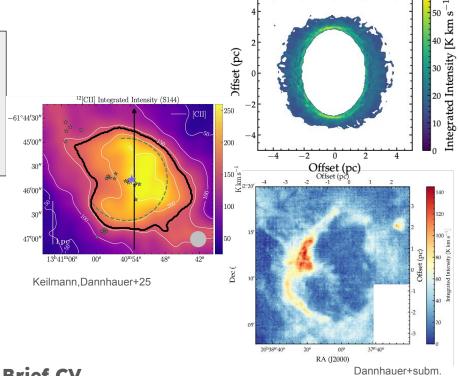
Simon Dannhauer (University of Cologne / MPIfR)

dannhauer@ph1.uni-koeln.de

Research Interest

- Stellar Feedback in the MilkyWay and Nearby Galaxies
- **Proplyds, Protostellar Cores**
- [CII] as a tracer of Star formation, PDRs (SOFIA FEEDBACK)
- CI for carbon budget, cloud formation (CCAT/FYST GECO)
- HI to H2 transition





Brief CV

BSc/MSc: Argelander Institute for Astronomy, University of Bonn eROSITA-DE AGN Feedback in Galaxy Clusters (Xray+ Radio) PhD: I. Physics Institute, University of Cologne/ MPIfR

Star Formation and Stellar Feedback, 2nd year (sub-mm)

Scientific Interests:

Statistics and Bayesian inference applied to

- molecular clouds (Orion B consortium)
- Gravitational Waves

My main contribution: publication of Beetroots

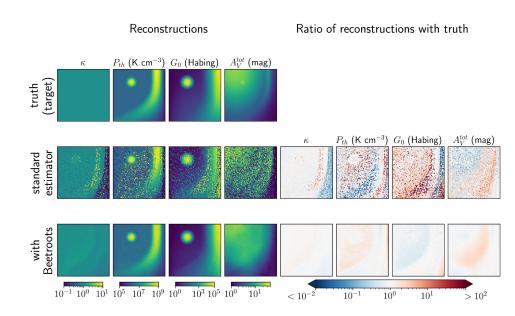
Brief CV:

2019: Master degree with a major in statistics / ML

2019-2020: Data Scientist in Brazil

PhD: 2023 from Observatory of Paris & Cristal (Lille)

2024-now: PostDoc researcher at APC (Paris)

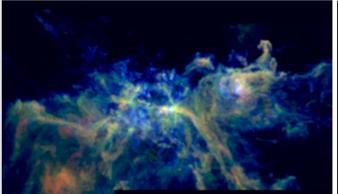


Recent favorite plot: Example of estimation with Beetroots, from Palud et al (2025)

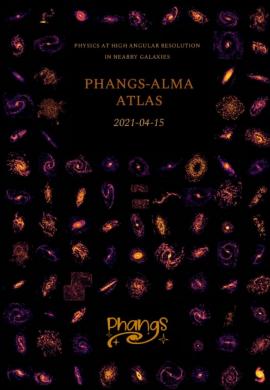
This week, I'm here to give the class on Bayesian inference











Jérôme Pety (pety@iram.fr)

29th year PhD student IRAM & Obs de Paris, France

Scientific Interests

- ISM from high redshift galaxies to star and planet formation
- The Horsehead nebula & Orion B
- Nearby galaxies
- (sub-)mm single-dish and interferometry
- Data reduction, statistics, and machine learning

Brief CV

- 1997-1999: PhD at Sorbonne University
- 2000-2002: Post-doc IRAM
- 2003-Present: Astronomer at Obs. de Paris, detached to IRAM



International Summer School on the ISM of Galaxies

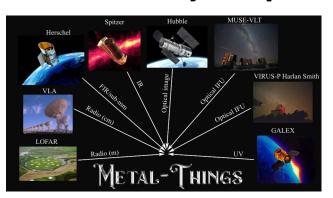
GISM 2025, July 22st-August 1st, Banyuls-sur-Mer, France

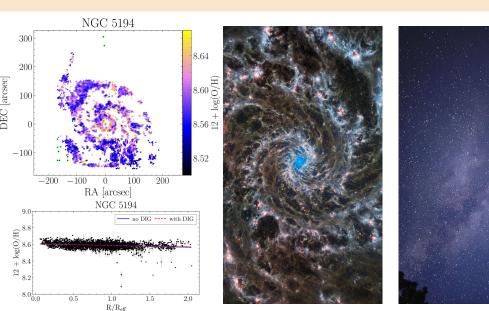
Guillermo Valé Arteaga { guivale@ucm.es } Universidad Complutense de Madrid (UCM) Spain



Scientific interests:

- Galaxy evolution
- Interstellar Medium
- Chemical abundances
- Metallicity and metallicity gradients
- Atomic and molecular gas distribution
- Machine Learning techniques





- 2024 today: 1st year PhD student
- 2023 2024: Master's Degree in Astrophysics (UCM)
- 2019 2023: Bachelor's Degree in Physics (UCM)



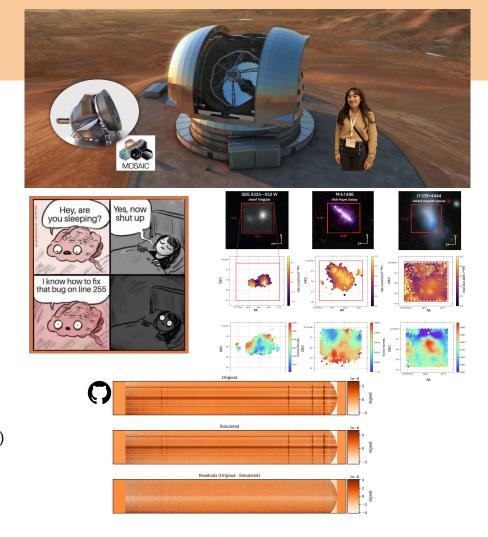
María Chillarón Universidad Complutense de Madrid (UCM) Spain

mchill01@ucm.es

Scientific interests:

- Dwarf galaxies analogs to those at Epoch of Reionization
- Nearby, low-mass, high-star-forming galaxies
- Emission lines analysis
- Instruments: pipelines/software development
- Upcoming: metallicity gradients of dwarf galaxies

- 2019-2023 Bachelor's degree in Physics (UCM)
- 2023-2024 Master's in Astrophysics (UCM)
- 2024 Max Planck Institute for Astronomy (Heidelberg)
- Now: 1st year PhD student
- MEGARA@GTC (10.4m) Data curator (Dwarfs4MOSAIC ITP)



Vasanth Kashyap Ravikumar, Scuola Normale Superiore di Pisa, Italy

vasanth.kashyap@sns.it



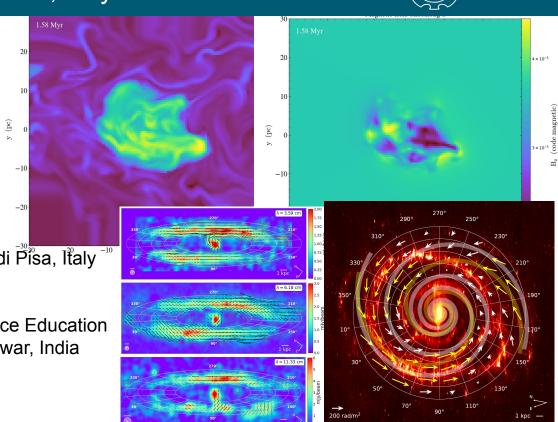
Scientific Interests:

- MHD numerical simulations
- Galactic dynamos
- Synchrotron Emission to probe Magnetic Fields

Brief CV:

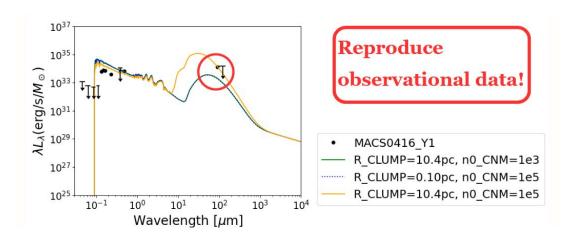
PhD Student at Scuola Normale Superiore di Pisa, Italy 10 2024

Integrated M.Sc - National Institute of Science Education 2019 - 2024 and Research, Bhubaneswar, India



Target Galaxy: MACS0416 Y1 (z=8.3)





Reproduce SED with detailed dust model.



Ngoya University in Japan

1 st year PhD student



Interests & Projects

- High-z (z=8) Galaxy Evolution
- Chemical Evolution
- Dust Evolution
- Machine Learning
- Cosmology

Comment

I want to make 100 friends here!!!

MY CONTACT INFO	
ryusei172525@gmail.com	https://kano-ryusei.net/

Optical identification of carbonaceous nanoparticles modelling soot

Large carbonaceous compounds have been reported in interstellar medium, exoplanet's atmosphere and Earth's atmosphere

- => Improve interstellar dust models
- => Modelling **radiation forcing** of Earth's atmosphere and the impact of soot on **health**

Problematic:

Use **UV-visible measurements** as a non-invasive probe to characterize soot nanoparticles *in situ*

Approaches existing : T-Matrix, **DDA**, Lorenz-Mie theory, Rayleigh-Debye-Gans theory, etc.

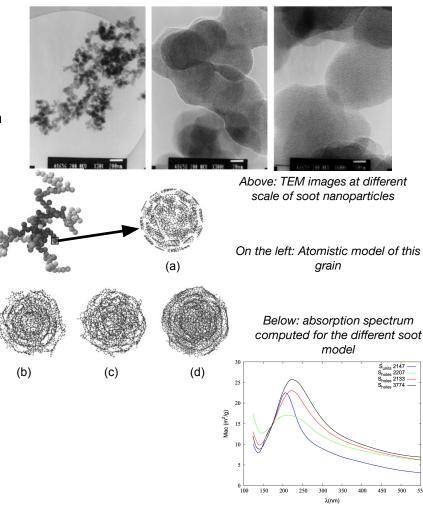
=> Do not consider atomistic details of the particle

Specificity of the work:

DADI model: Computation of optical properties of nanoparticles as a function of their atomic characteristics (morphology, chemical functions, defects, ...)

=> Need to know frequency-dependent atomic polarizabilities and coordinates of every atoms forming the particule

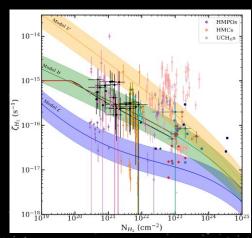
Contact: <u>nicolas.brosseau-habert@univ-fcomte.fr</u>

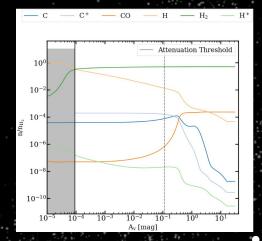


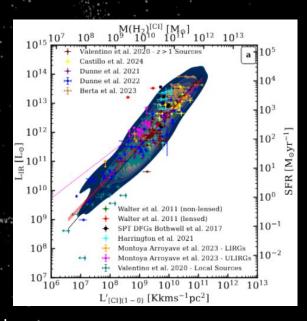
Theodoros Topkaras, University of Cologne, Germany PhD working with Dr. Volker Ossenkopf-Okada and Dr. Markus Röllig

Scientific Interests

- SFR traced by [CI] and CO across redshift
- How cosmic rays alter the structure/chemistry of PDRs
- Implementation of the cosmic ray attenuation rate into KOSMA-т







Background

- BSc: Aristotle University of Thessaloniki
- MSc: Leiden University, The Netherlands
 - PhD: I. Physics Institute, University of Cologne



Taishi Ushirogi University of Cologne, Germany



Contact: <u>ushiroqi@ph1.uni-koeln.de</u>

Research Interests:

- Star / cluster formation
- Episodic accretion / outflows
 - → how the cavity is filled with gas
- Colliding / merging outflows → fragmentation?
- He I absorption line (JWST)

Background:

2024 - present: 1st year PhD

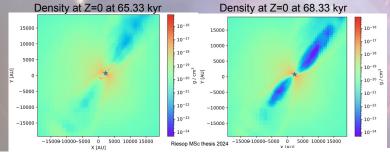
(Supervisor: Prof. Dr. Stefanie Walch-Gassner)

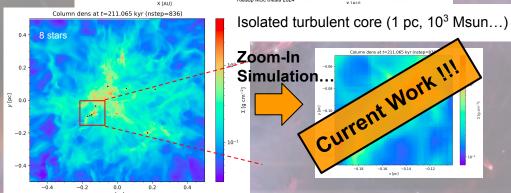
2018 - 2022: MPhys & BSc @ University of Leeds, UK

from JAPAN.

3D MHD AMR code FLASH

Module Test: Episodic accretion, outflow

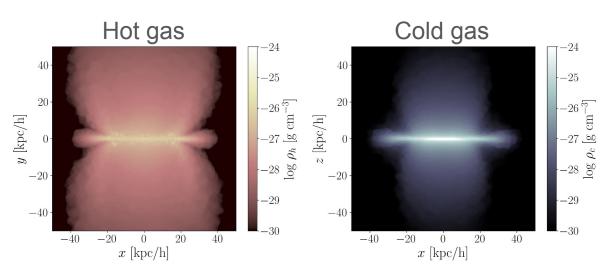




Nele Stachlys (Leibniz Institute for Astrophysics Potsdam AIP, Germany

Scientific Interests:

- Numerical simulations (AREPO)
- Galaxies in cosmological context
- Star formation and feedback
- ISM chemistry



Short CV:

- 2024 present PhD Student at AIP, thesis: "A multi-fluid model for the interstellar medium in cosmological simulations"
- 2020 2024 MSc. Astrophysics at University of Potsdam
- 2017 2020 BSc. Physics at Jacobs University Bremen

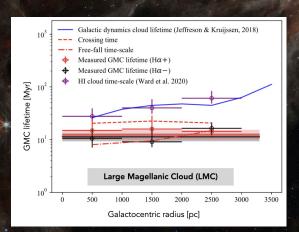
Xinyue Liang, 1st PhD student, Heidelberg University

UNIVERSITÄT HEIDELBERG ZUKUNFT SEIT 1386

Supervisor: Mélanie Chevance Collaborator: Lise Ramambason

Scientific Interests:

- Galaxy formation and evolution
- Interstellar medium
- Nearby galaxies
- Matter Cycle in galaxies



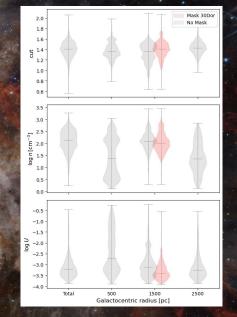
(Ward et al. 2022)

Brief CV:

- 1st year PhD student at Heidelberg University, Germany
- 2021-2024 MSc at Xiamen University, China
- 2017-2021 BSc at Xiamen University, China



MULTIGRIS (Lebouteiller & Ramambason 2022)



Esan Mouli Ghosh (eghosh@astro.rug.nl) 1st Year PhD Kapteyn Astronomical Institute, Rijksuniversiteit Groningen







Supervisors: Floris van der Tak, Alexander Tielens, John Bally

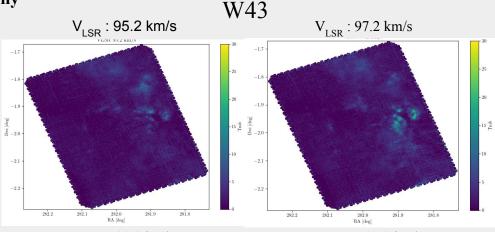
Scientific Interests:

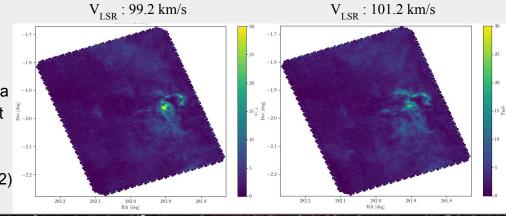
- [C II] and [N II] observations from far-infrared balloon-borne mission GUSTO
- PDRs and H II regions around massive stars
- Identify expanding bubbles and shells in velocity-resolved maps
- Compare effects of radiative vs mechanical feedback in the Milky Way
- Estimate properties (mass, KE, etc) of feedback structures

Current Project:

Study W43 ministarburst cluster using SOFIA data

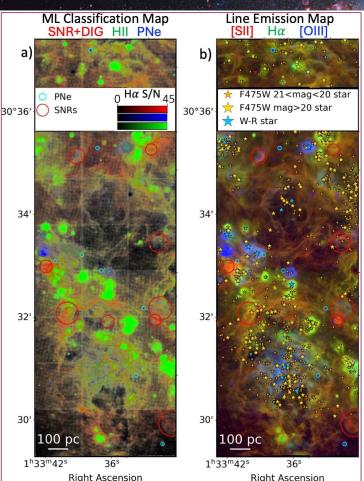
- Dec 2024 today : PhD at RUG, The Netherlands
- 2019 2024 : Dual BS-MS in Physics at IISER Mohali, India Masters Thesis Project : Probing Galactic Halos using Fast Radio Bursts in Cosmological Simulations at Curtin University, Perth, Australia
- Internships at 1) Leiden Observatory, The Netherlands,
 USM Munich, Germany 3) UC Santa Cruz, USA





Caterina Bracci - University of Florence // INAF - OAA





Scientific background:

- BSc & MSc in Physics and Astrophysics @ UniFI.
- Focus on (observational) extragalctic astrophysics -> ISM.
- Thesis on classifying emission-line region spectra with Neural Networks.

Current project (1st year PhD):

- Deep learning methods for spectral analysis.
- Simulation-based inference to infer ISM parameters from photoionisation models.

NN classification of ionised nebulae (CB+25)

Me @Paranal



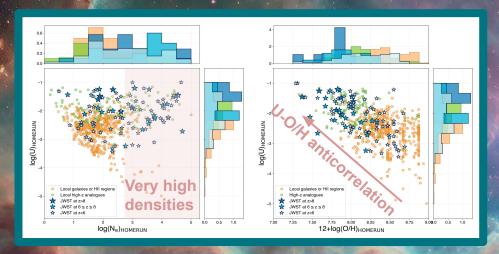
caterina.bracci@unifi.it

GISM 2025, July 22st-August 1st, Banyuls-sur-Mer, France



Bianca Moreschini – bianca.moreschini@unifi.it



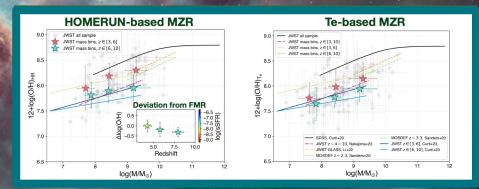


Scientific interests:

- * ISM physical & chemical properties in high-z galaxies
- * Photoionisation models
- * Abundance measurements
- * (Colourful plots!)

A very brief history of my (academic) life so far:

- * currently a **PhD student at UniFI** & INAF-OAA
- * previously a Master's and Bachelor's student at UniFI



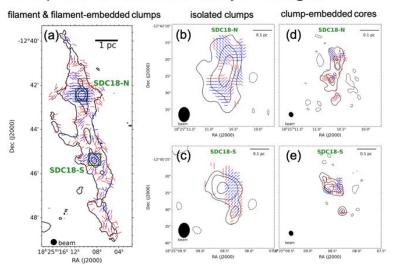
Han-Tsung Lee, University of Cologne, Germany

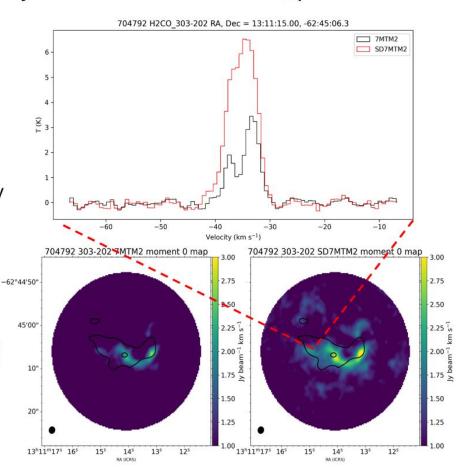
htlee@ph1.uni-koeln.de

Scientific interests:

- ISM magnetic field
- Data combination of interferometric and single dish observations
- ISM chemistry

- 2021-2023: MSc. in Physics at National Taiwan University
- 2024-present: PhD at university of Cologne





Vidhi Tailor

vidhi.tailor@studio.unibo.it

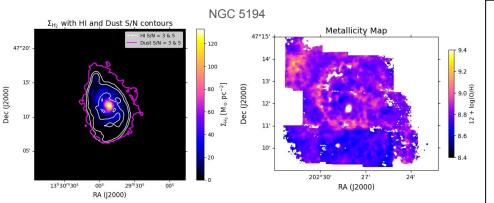
University of Bologna / INAF - IRA, Italy

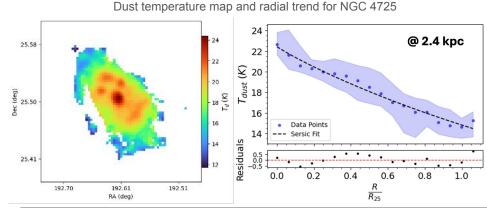




Scientific Interest:

- ⋆ ISM physics
- Spatially resolved, multiwavelength studies of nearby galaxies
- ⋆ Dust properties and heating
- ★ Chemical enrichment and dust evolution





- ★ 2nd year PhD student, University of Bologna
- ⋆ Project Scientific Asst., HBCSE TIFR, Mumbai
- MSc Physics, St. Xavier's College, Mumbai







DR. CORRADO TRIGILIO

PROF. FRANCESCO LEONE

OACT-RADIOASTRONOMY GROUP

SCORPIO FIELD

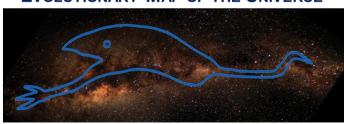
4°0'0" 2°0'0" 0000" -2°-0'-0' 49-0'-0' -6°-0'-0'

ANTONIO MARIA TROVATO, FIRST YEAR PhD STUDENT

RESEARCH PROJECT AND SCIENTIFIC INTERESTS: SUPERVISORS:

- FILAMENTARY STRUCTURES IN OUR GALAXY
 AT RADIO WAVELENGTHS
- > FILAMENTS IN THE SCORPIO FIELD
- > ANALYSIS MULTI-WAVELENGTHS
- DIFFERENT REGIONS IN EMU

EVOLUTIONARY MAP OF THE UNIVERSE



ASKAP @ 944 MHz



Siqi Zheng (zheng@ph1.uni-koeln.de)

Shanghai Astronomical Observatory, China

Visiting student in University of Cologne, Germany

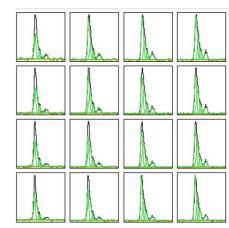
I am working on:

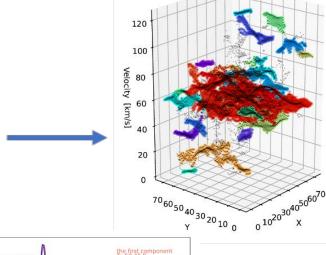
Analysing the dynamic properties of Sagittarius B2 (Sgr B2) with molecular

emission lines

Scientific Interests:

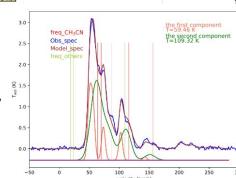
- high-mass star formation
- Astrochemistry
- Interstellar medium





Short CV:

2020-2022 MSc: Shanghai Astronomical Observatory 2022-present 3rd year PhD student: Shanghai Astronomical Observatory 2024-present visiting student in University of Cologne



Arina Arshinova

The Special Astrophysical Observatory, Russia Scientific supervisor: Moiseev A. V.

Scientific Interests:

AGN optical spectroscopy high energy astrophysics polarization statistical methods applications

Brief CV:

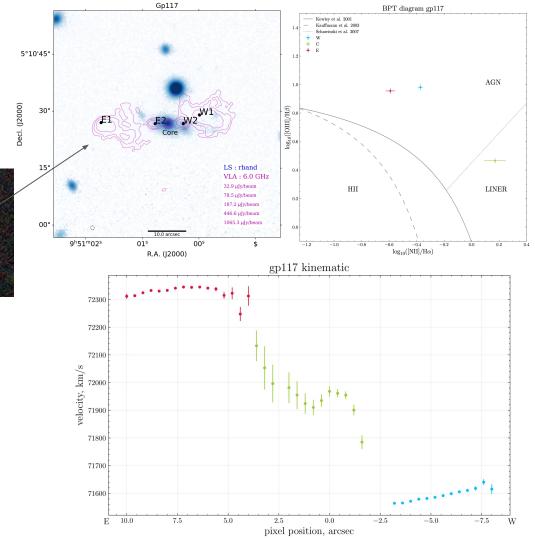
Specialist degree:

Mathematics & Mechanics Faculty, Saint Petersburg State University

PhD:

1st year student Laboratory of Spectroscopy and Photometry of Extragalactic Objects, SAO RAS

arina.arshinova@gmail.com



- Chemical abundances of type-2 AGN in different environments

Scientific Interests:

- Galaxy Formation & Evolution
- Active Galactic Nuclei (AGN)
- Intergalactic Medium
- Star Formation Rates & Feedback

Brief CV:

2023-present: Associate researcher, SSGI 2021-2023: Msc in Astrophysics from Addis Ababa University, Ethiopia 2020: Graduate Assistant Lecturer Dire Dawa University (DDU), Ethiopia 2017-2019: B.s. in physics from DDU,

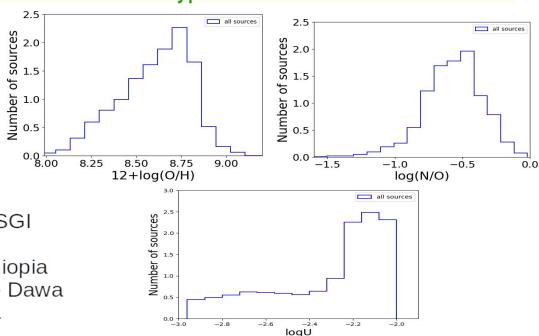


Fig. Derived parameters from SDSS DR8 using HCM-Code

GISM 2025, July 22st-August 1st, Banyuls-sur-Mer, France

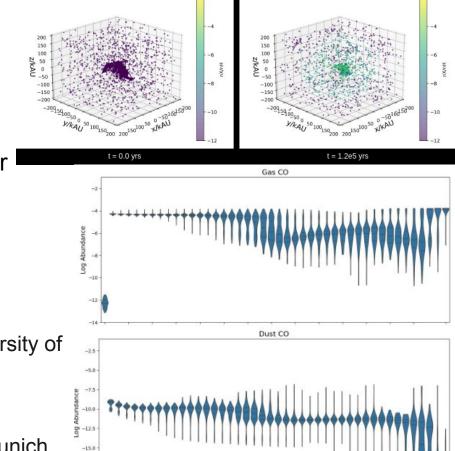
Akash Gupta

- Main interests:
 - Post-processing MHD simulations of high-mass star formation: using tracer particles
 Astrochemical modeling
- Side Interests:
 - IR astronomy
 - Star clusters

2024 - :PhD Student at 1. Institute of Physics, University of Cologne/MPIfR

Advisor: Prof. Dr. Peter Schilke

MSc Astrophysics: Ludwig Maximilians University Munich Master thesis work at ESO, Garching Advisors: Valentin Ivanov (ESO), Thomas Preibisch (LMU)



Vishalika Sharma, University of Cologne, Germany



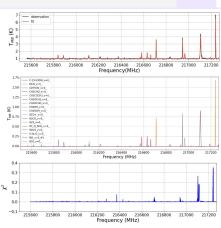
vsharma@smail.uni-koeln.de

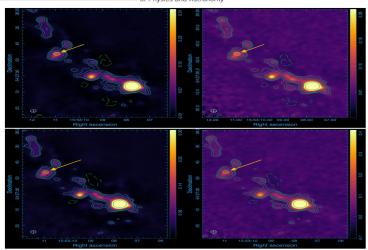
- Master's student at the University of Cologne
- Upcoming thesis at the Max-Planck-Institut für Radioastronomie, Bonn
 Supervisor: Prof. Dr. Amélie Saintonge

Research interests

- Galaxy Evolution in the Local Universe
- Multi-Wavelength Observations of the ISM
- Star Formation Efficiency & Quenching
- Molecular Gas in Galaxies







- Spectroscopic analysis of a star-forming core in G327.3-0.6
- Modelling binary stars
- IFU with MUSE data
- Studying open clusters with GAIA DR3 data

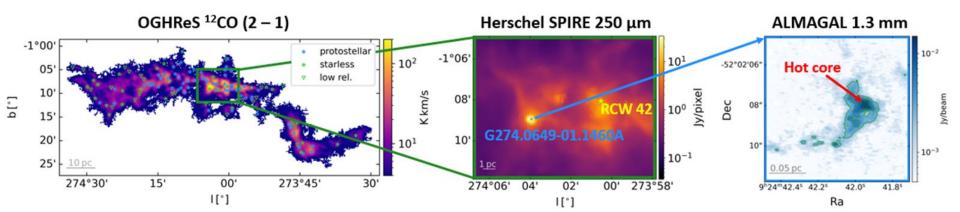
Eleonore Dann (University of Cologne, MPIfR) dann@ph1.uni-koeln.de



Research interests:

- Star formation in the outer Galaxy/low metallicity environments
- Stellar feedback
- Connecting core, clump and cloud scales

- since 11.2023: PhD student, University of Cologne
- 09.2023: MSc Physics, University of Cologne
- 06.2022 09.2023: Master thesis research at the MPIfR, Bonn
- 09. 2019: BSc Physics, University of Potsdam



Linn Roos, MPIfR Bonn, Germany

Supervisor: Amélie Saintonge

linn_roos@outlook.com

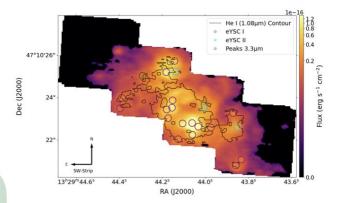


Scientific Interests

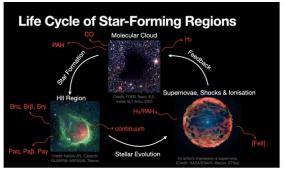
- Galaxy Formation & Evolution
- Star Formation
- Baryon Cycle



M51 (NASA/ESA)



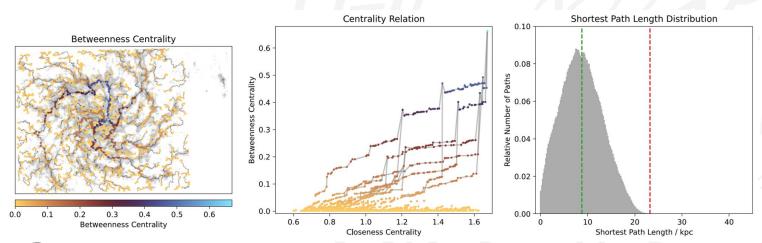
- BSc in Astronomy: University of Vienna, Austria (2019-2023)
- MSc in Astronomy: Uppsala University, Sweden (2023-2025)
- Research intern at ESA, Netherlands (2024)
- PhD: MPIfR Bonn, Germany (starting September)



Scientific Interests:

- Molecular Gas Filaments
- Galaxy Morphology
- **Galactic Structure Formation**

- **BSc Physics: University of Rostock**
- MSc Astrophysics: University of Munich
 PhD: Max Planck Institute for Extraterrestrial Physics













Tilman Oelgeschläger

(Max-Planck Institute for Astrophysics, Garching)

Kewley+2001 line
---- Kauffmann+2003 line

Scientific interests:

- Gas kinematics
- Environmental effects on galaxy evolution
- ☐ Statistical studies of galaxy populations
- Optical spectroscopy

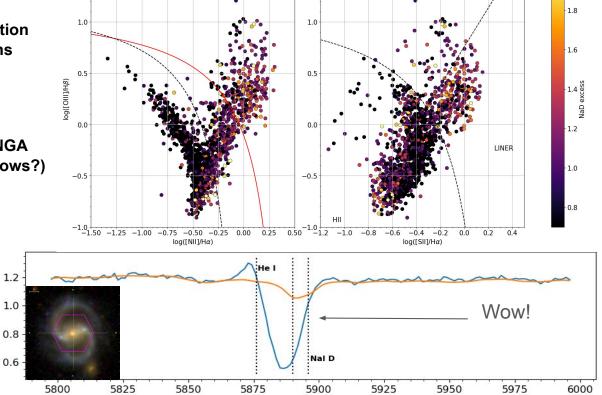
Working on:

□ Tracers of different gas phases in MANGA IFU data, looking for outflows (and inflows?)

Brief CV:

- □ Bachelors, Masters @ University of Cape Town, South Africa
- ☐ 1st year PhD @ MPA Garching, (2024-?)

e-mail: tilmano@mpa-garching.mpg.de



Radius ~ 0.2Re stacks

UCSanDiego Hannah Koziol (she/her)

Advisor: Karin Sandstrom

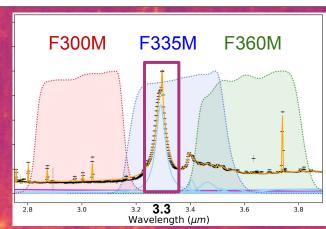
Scientific Interests:

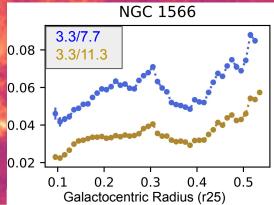
- **Dust life-cycle in ISM**
- Polycyclic aromatic hydrocarbons (PAHs)
- Photometrically mapping the 3.3 µm feature with JWST
- Comparing to dust models to measure charge and size distribution of PAH populations

Brief CV:

- 2022-present PhD at UCSD
- 2018-2022 BSc in physics at University of Connecticut

Email: hkoziol@ucsd.edu





Lindsey Hands (she/her) University of California, San Diego PI: Karin Sandstrom

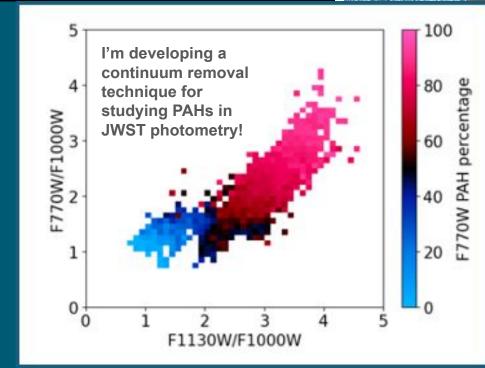




Scientific interests

- PAHs!
 - Polycyclic Aromatic Hydrocarbons
- JWST photometry
- Nearby Galaxies (PHANGS)

- Mount Holyoke College Bachelors
 - o (2018 2022)
- UC San Diego PhD
 - o (2022 present)



Enikő Pichler, Masters student

Eötvös Loránd University, Hungary Project supervisor: Professor L. Viktor Tóth



Scientific interests:

- Irregular dwarf galaxies
- Stellar feedback
- Interstellar turbulence





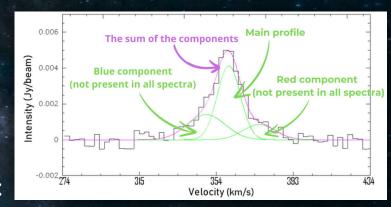


Sloan Digital Sky Survey

My project:

- HI line analysis of nearby dwarf galaxy DDO 43
- Connect line properties to turbulence and star formation tracers

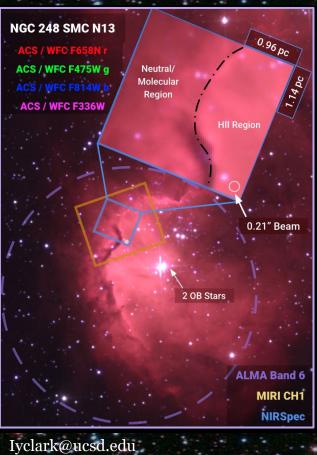
Recent favourite plot:



Ilyse Clark (She/Her)

4th Year Graduate Student - University of California, San Diego





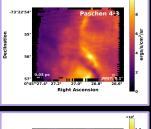
Scientific Interests:

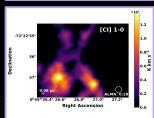
- Photodissociation Regions (PDRs)
- Low MetallicityEnvironments
- Galaxy Evolution

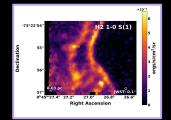
Brief CV:

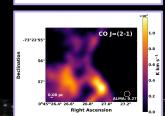
BS Astronomy, BS Physics - University of Texas at Austin (2018-2022)

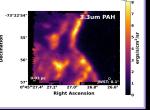
- Optical & UV Galaxy Properties with HST COS, PI: Danielle Berg
- PhD in Astrophysics University of California, San Diego (2022-Present)
 - SMC N13 PDR Analysis with JWST and ALMA, PI: Karin Sandstrom

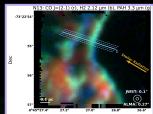












Pietro Ferraiuolo

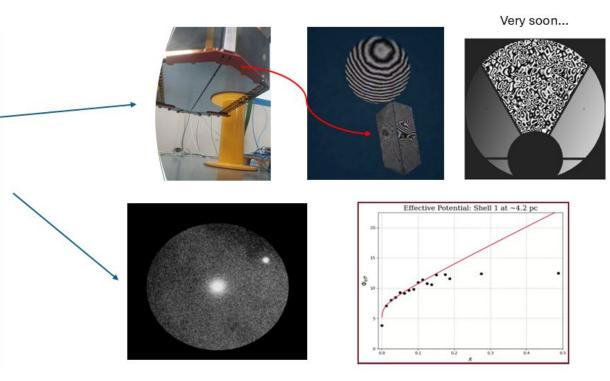
Research Fellow (AdR) at INAF - Arcetri Observatory (Florence)

Research interests

- Stellar system dynamics (GCs, Galaxies)
- Compact objects (BHs, SBHs, NS)
- Instrumentation and technologies for Astrophysics

Main Projects

- E-ELT M4 Deformable Mirror (2.6m Ø,1.5mm thickness)
- Globular Cluster's internal dynamics with GAIA
- BINCAT (PI): A catalogue of probable very close binary stars



Felix Wersig, 2nd Year PhD TU Dortmund University

Scientific Interest:

- Dark Matter
- MAGIC Telescopes / Gamma Astronomy
- Cosmic Ray Propagation

Brief CV:

- 2023-Present PhD TU Dortmund
 - Dark Matter limits with LOFAR and MAGIC
- 2021 2023 M.Sc. Physics TU Dortmund
 - Variability of Crab Nebula at Very High Energies
- 2018 2021 B.Sc. Physics TU Dortmund

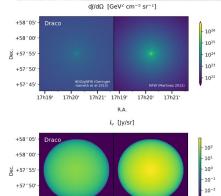
Current Project

- improve Particle DM limits with MAGIC and LOFAR
- dSph Galaxy data



MAGIC Telescopes (credit: Robert Wagner)

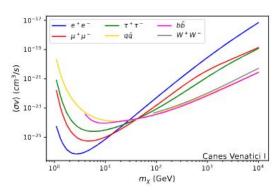
LOFAR Superterp (credit: astron)



17h20' 17h21'

17h19' 17h20' 17h21' 17h19'

+57 ' 45'



Figures taken from 2401.05255

Annie Hughes, IRAP (Toulouse, France)

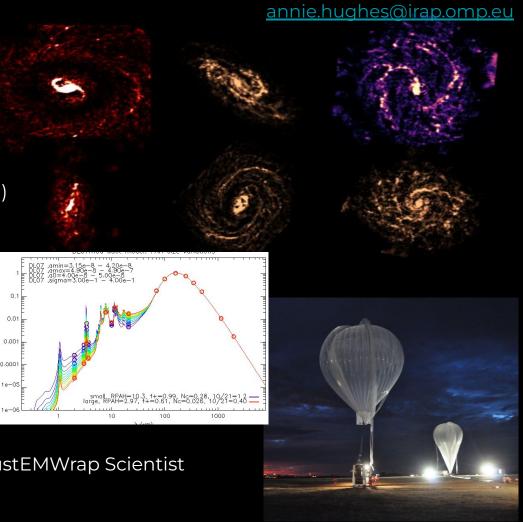
Scientific Interests:

- Cold gas properties and organisation
- observations of ISM Nearby Galaxies (PHANGS, IMEGIN)
- Dust polarisation
- Magellanic Clouds
- Astronomy from balloons

Short CV:

PhD: 2011 from Swinburne Uni (Australia) 2011-2014 Postdoc MPIA (PAWS project) 2014-2016 Postdoc IRAP (PILOT project)

2016-present CNAP Junior Astronomer & DustEMWrap Scientist

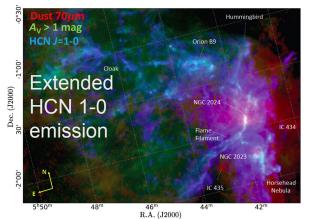


Miriam G. Santa-Maria

CO-ladder project: contact person (Javier arrives on Monday)

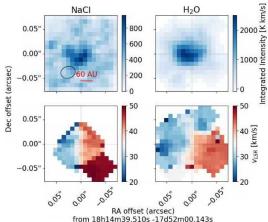
Scientific interests:

- Characterization molecular ISM gas:
 - Sgr B2, Brick & Sgr A* in the Galactic Center
 - Orion A & B in the Galactic disk
 - HMYSO disks: Salts & hot water.
- PDRs and Cosmic rays DRs.
- Microphysical processes: excitation and chemistry.



RGB image of a 5-square-degree area of Orion B GMC (G. Santa-Maria, M., et al., 2023, A&A, 679, A4)

miriam.g.sm@csic.es



Confirmation NaCl and H₂O v=1 emission from W33A disk

- 2018-2023: PhD in molecular astrophysics under Javier R.
 Goicoechea supervision (IFF-CSIC).
- Jan2024-May2025: Postdoc at U.Florida (Gators' land) in Adam Ginsburg's group.
- June2025-present: Postdoc at National observatory (OAN), Madrid.
- This fall (soon-ish): junior permanent position at IFF-CSIC.
- GISM2021: as student, online edition.



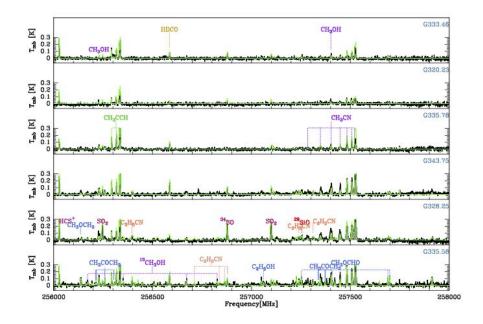
Laure Bouscasse (IRAM)

bouscasse@iram.fr

Scientific interests

- star formation
- observations
- data analysis

- 2017-2021: PhD in MPIfR (Bonn)
- 2021-2025: Postdoc at IRAM
- 2025-: Staff Astronomer at IRAM





Lorenzo Evangelista

Institut d'Astrophysique de Paris (France)

PhD (2nd year) - interstellar medium in active galactic nuclei

understanding the mechanisms of dissipation of the injected energy JWST observations (MIRI - MRS) -> modeling of jet-driven shocks and radiative feedback

