

REFEREED PUBLICATIONS

E. Lusso, E. Nardini, S. Bisogni, G. Risaliti, R. Gilli, G. T. Richards, F. Salvestrini, C. Vignali, G. Bargiacchi, F. Civano, M. Elvis, G. Fabbiano, A. Marconi, A. Sacchi, M. Signorini

The most luminous blue quasars at $3.0 < z < 3.3$ II. C iv/X-ray emission and accretion disc physics

Astronomy & Astrophysics, in press

<https://ui.adsabs.harvard.edu/abs/2021arXiv210702806L/abstract>

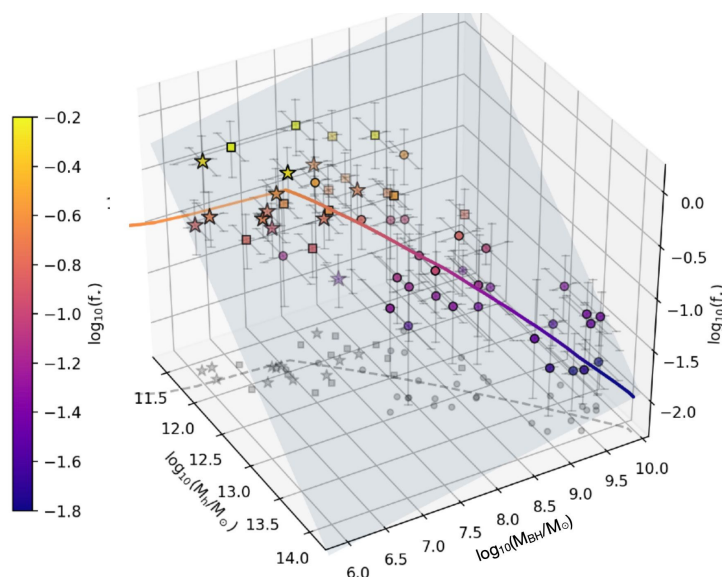
A. Marasco, G. Cresci, L. Posti, F. Fraternali, F. Mannucci, A. Marconi, F. Belfiore, S. M. Fall

A universal relation between the properties of supermassive black holes, galaxies, and dark matter halos

Monthly Notices of the Royal Astronomical Society, in press

<https://academic.oup.com/mnras/advance-article-abstract/doi/10.1093/mnras/stab2317/6352985>

Media INAF: <https://www.media.inaf.it/2021/08/23/relazione-galassie-aloni-buchi-neri/>



J. Soldateschi, N. Bucciantini, L. Del Zanna

Quasi-universality of the magnetic deformation of neutron stars in general relativity and beyond

Astronomy & Astrophysics, in press

<https://arxiv.org/abs/2106.00603>

N. Tomei, L. Del Zanna, M. Bugli, N. Bucciantini

Are GRMHD Mean-Field Dynamo Models of Thick Accretion Disks SANE?

Universe (2021), 7(8), 259

<https://www.mdpi.com/2218-1997/7/8/259>

S. Monty, F. Rigaut, R. McDermid, H. Baumgardt, J. Cranney, **G. Agapito**, J.T. Mendel, **C. Plantet**, D. Greggio, P. B. Stetson, G. Fiorentino, D. Haynes

Towards realistic modeling of the astrometric capabilities of MCAO systems: Detecting an intermediate mass black hole with MAVIS

Monthly Notices of the Royal Astronomical Society (2021), 407, 2, 2192

<https://academic.oup.com/mnras/advance-article-abstract/doi/10.1093/mnras/stab2199/6333369>

A. Murphy, C. Dougados, E.T. Whelan, **F. Bacciotti**, D. Coffey, F. Comerón, J. Eisloffel, T. P. Ray

A MUSE Spectro-imaging Study of the Th 28 Jet: Precession in the Inner Jet

Astronomy & Astrophysics, in press

<https://arxiv.org/abs/2107.08065>

A. K. Leroy, A. Hughes, D. Liu, J. Pety, E. Rosolowsky, T. Saito, E. Schinnerer, A. Schrubba, A. Usero, C. M. Faesi, C. N. Herrera, M. Chevance, A. P. S. Hygate, A.A. Kepley, E.W. Koch, M. Querejeta, K. Sliwa, D. Will, C.D. Wilson, G.S. Anand, A. Barnes, **F. Belfiore** et al.

PHANGS-ALMA Data Processing and Pipeline

The Astrophysical Journal Supplement Series (2021) 255, 1

<https://iopscience.iop.org/journal/0067-0049>

F. Nicastro, G. Sironi, E. Antonello, A. Bianco, M. Biasin, **J.R. Brucato**, I. Ermolli, G. Pareschi, M. Salvati, **P. Tozzi**, D. Trabattoni, M. Clerici

Solar UV-B/A Radiation is Highly Effective in Inactivating SARS-CoV-2

Nature, Scientific Reports (2021), 11, 14805

<https://www.nature.com/articles/s41598-021-94417-9>

Media INAF: <https://www.media.inaf.it/2021/07/20/sole-contro-il-covid/>

L. Spina, P. Sharma, J. Meléndez, M. Bedell, A. R. Casey, M. Carlos, **E. Franciosini**, A. Vallenari

Chemical evidence for planetary ingestion in a quarter of Sun-like stars

Nature Astronomy, in press

<https://www.nature.com/articles/s41550-021-01451-8>

Media INAF: <https://www.media.inaf.it/2021/08/30/stelle-pianeti-cannibali-chimica>

A.S. Binks, R.D. Jeffries, R.J. Jackson, **E. Franciosini**, **G.G. Sacco**, A. Bayo, **L. Magrini**, **S. Randich** et al.

The Gaia-ESO survey: a lithium depletion boundary age for NGC 2232

Monthly Notices of the Royal Astronomical Society (2021), 505, 1, 1280

<https://academic.oup.com/mnras/article-abstract/505/1/1280/6274699>

D. Romano, **L. Magrini**, **S. Randich**, G. Casali, P. Bonifacio, R. D. Jeffries, F. Matteucci, **E. Franciosini**, L. Spina, G. Guiglion, C. Chiappini, A. Mucciarelli, P. Ventura, V. Grisoni, M. Bellazzini, T. Bensby, A. Bragaglia, P. de Laverny, A. J. Korn, S. L. Martell, G. Tautvaišienė, G. Carraro, A. Gonneau, P. Jofré, **E. Pancino** et al.

The Gaia-ESO Survey: Galactic evolution of lithium from iDR6

Astronomy & Astrophysics, in press

<https://ui.adsabs.harvard.edu/abs/2021arXiv210611614R/abstract>

M. Baratella, V. D'Orazi, V. Sheminova, L. Spina, G. Carraro, R. Gratton, **L. Magrini**, **S. Randich**, M. Lugaro, M. Pignatari, D. Romano, K. Biazzo, A. Bragaglia, G. Casali, S. Desidera, A. Frasca, G. de Silva, C. Melo, **M. Van der Swaelmen**, G. Tautvaišienė, F. M. Jiménez-Esteban, G. Gilmore, T. Bensby, R. Smiljanic, A. Bayo, **E. Franciosini**, A. Gonneau, A. Hourihane, P. Jofré, L. Monaco, **L. Morbidelli**, **G. Sacco**, L. Sbordone, C. Worley, S. Zaggia

The Gaia-ESO Survey: A new approach to chemically characterising young open clusters II. Abundances of the neutron-capture elements Cu, Sr, Y, Zr, Ba, La, and Ce

Astronomy & Astrophysics, in press

<https://arxiv.org/abs/2107.12381>

D.J. Walton, M. Baloković, A.C. Fabian, L. C. Gallo, M. Koss, **E. Nardini**, C.S. Reynolds, C. Ricci, D. Stern, W. N. Alston, T. Dauser, J. A. García, P. Kosec, M.T. Reynolds, F.A. Harrison, J.M. Miller

Extreme Relativistic Reflection in the Active Galaxy ESO 033-G002

Monthly Notices of the Royal Astronomical Society (2021), 506, 2, 1557

<https://academic.oup.com/mnras/article/506/2/1557/6321209>

T. Peruzzi, M. Pasquato, S. Ciroi, M. Berton, P. Marziani, **E. Nardini**

Interpreting automatic AGN classifiers with saliency maps

Astronomy & Astrophysics (2021), 652, A19

<https://ui.adsabs.harvard.edu/abs/2021A%26A...652A..19P/abstract>

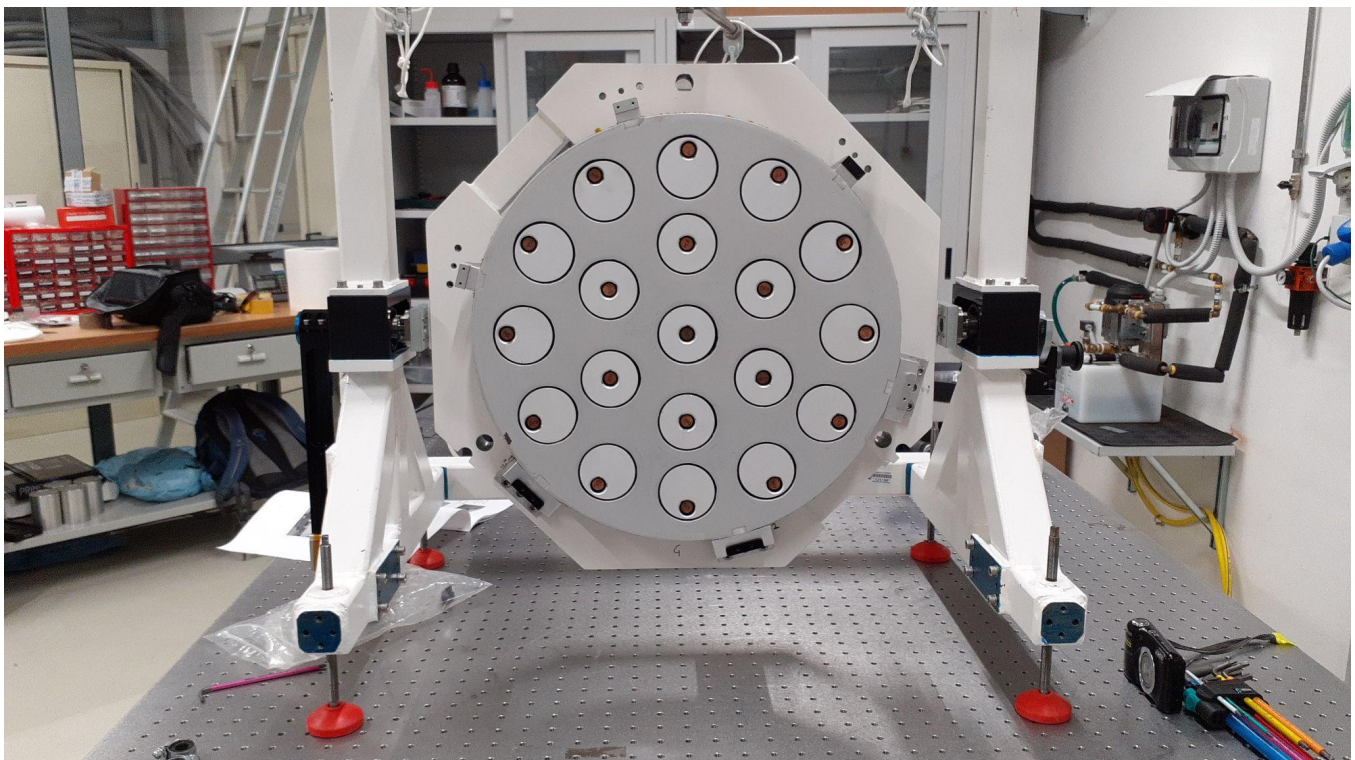
TECHNOLOGICAL MILESTONES

LATT deformable mirror prototype successfully arrived at INAF Arcetri

On August 3rd, the LATT prototype was successfully transferred from ESA-ESTEC to Arcetri, under a 5 years loan agreement. The prototype is a 40 cm diameter deformable mirror, controlled by 19 voice coil actuators and was manufactured and tested under the former LATT project (INAF was involved for the optical qualification of the system). The project intended to assess the feasibility for space of an active primary based on voice coil actuators and a thin glass shell, sharing the same technology as the LBT and VLT secondary and ELT M4.

Within the **PRIN 2019 SPLATT project** (Segments and Pyramids for Large Aperture space Telescope Technology), the prototype has been transferred at INAF Arcetri and installed in the optical laboratory to further assess the capabilities of voice coil active primaries for space. In particular, the research team will investigate the rejection of external vibrations offered by contactless actuators, as a driver for improved optical performances and reduced complexity and costs.

The SPLATT team at INAF-OAA is composed by Runa Briguglio, Marco Xompero and Ciro Del Vecchio.



Credits: R.Briguglio/ INAF Arcetri

NEW ARRIVALS

TECHNICIAN - GENERAL SERVICES

Jacopo Lenzi



In my previous career I worked as a registered "Geometra" (surveyor) freelance in a private practice, mainly dealing with workplace and fire safety as well as building design and construction management. I have held the role of consultant and security manager in various private companies and acted as teacher for training courses in the fields of workplace safety and fire prevention.

Here at the INAF Arcetri I will be in charge of General Services, hoping to be able to do a good job.