

REFEREED PUBLICATIONS

A. Brucalassi, M. Tsantaki, L. Magrini, S. Sousa, C. Danielski, K. Biazzo, G. Casali, M. Van der Swaelmen, M. Rainer, V. Adibekyan, E. Delgado-Mena, N. Sanna

Determination of stellar parameters for Ariel targets: a comparison analysis between different spectroscopic methods

Experimental Astronomy (2021)

<https://link.springer.com/article/10.1007/s10686-020-09695-4>

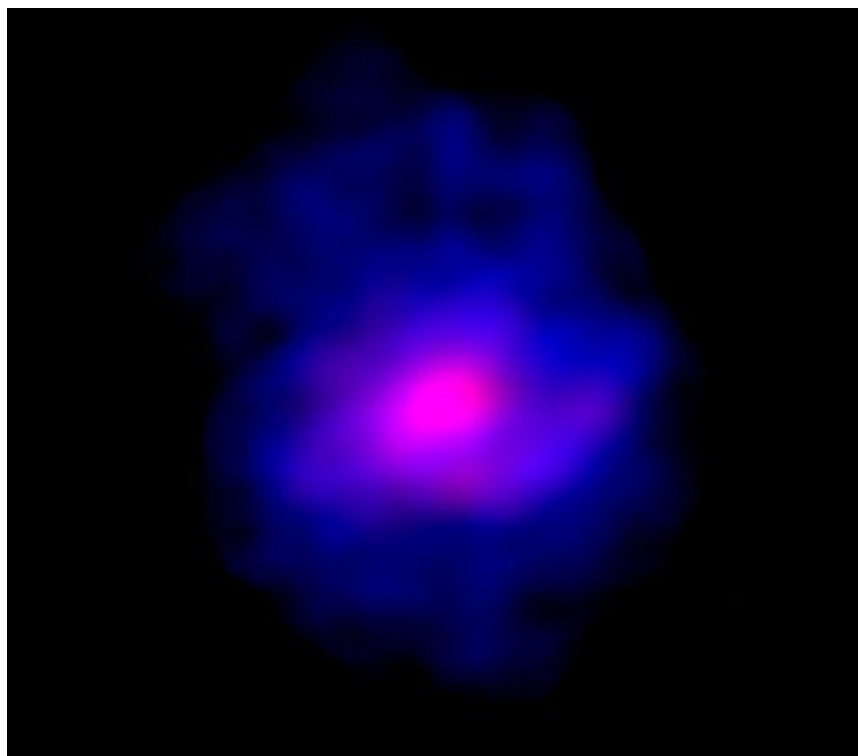
F. Lelli, E. M. Di Teodoro, F. Fraternali, A. W. S. Man, Z. Zhang, C. De Breuck, T. A. Davis, R. Maiolino

A massive stellar bulge in a regularly rotating galaxy 1.2 billion years after the Big Bang

Science (2021), 371, 6530

<https://science.sciencemag.org/content/371/6530/713>

Media INAF: <https://www.media.inaf.it/2021/02/11/aless-073/>



Cr: Lelli et al., 2021

M. Rainer, F. Borsa, **L. Pino**, G. Frustagli, M. Brogi, K. Biazzo, A.S. Bonomo, I. Carleo, R. Claudi, R. Gratton, A.F. Lanza, A. Maggio, J. Maldonado, L. Mancini, G. Micela, G. Scandariato, A. Sozzetti, N. Buchschacher, R. Cosentino, E. Covino, A. Ghedina, M. Gonzalez, G. Leto, M. Lodi, A.F. Martinez Fiorenzano, E. Molinari, M. Molinaro, D. Nardiello, **E. Oliva**, I. Pagano, M. Pedani, G. Piotto, E. Poretti

The GAPS Programme at TNG. XXX. Atmospheric Rossiter-McLaughlin effect and atmospheric dynamics of KELT-20b

Astronomy & Astrophysics, in press

<http://arxiv.org/abs/2103.10395>

S. Randich, L. Magrini

Light Elements in the Universe

Frontiers in Astronomy and Space Sciences (2021), 8, 616201

<https://www.frontiersin.org/article/10.3389/fspas.2021.616201>

A. Zurlo, **A. Garufi**, S. Pérez, F. O. Alves, J. M. Girart, Z. Zhu, G.A. P. Franco, L. I. Cleeves

Near-IR observations of the young star [BHB2007]-1: A sub-stellar companion opening the gap in the disk

The Astrophysical Journal, in press

<https://ui.adsabs.harvard.edu/abs/2021arXiv210303881Z/abstract>

Li, Pengfei; **Lelli**, Federico; McGaugh, Stacy; Schombert, James; Chae, Kyu-Hyun

A cautionary tale in fitting galaxy rotation curves with Bayesian techniques. Does Newton's constant vary from galaxy to galaxy?

Astronomy & Astrophysics (2021), 646, L13

<https://ui.adsabs.harvard.edu/abs/2021A%26A...646L..13L/abstract>

Scandariato, G.; Borsa, F.; Sicilia, D.; Malavolta, L.; Biazzo, K.; Bonomo, A. S.; Bruno, G.; Claudi, R.; Covino, E.; Di Marcantonio, P.; Esposito, M.; Frustagli, G.; Lanza, A. F.; Maldonado, J.; Maggio, A.; Mancini, L.; Micela, G.; Nardiello, D.; **Rainer, M.**; Singh, V.; Sozzetti, A.; Affer, L.; Benatti, S.; Bignamini, A.; **Biliotti, V.** et al.

The GAPS Programme at TNG. XXIX. No detection of reflected light from 51 Peg b using optical high-resolution spectroscopy

Astronomy & Astrophysics (2021), 646, A159

<https://arxiv.org/abs/2012.10435>

A.V. Ivlev, K. Silsbee, **M. Padovani**, **D. Galli**

Rigorous Theory for Secondary Cosmic-Ray Ionization

The Astrophysical Journal (2021), 909, 2

<https://ui.adsabs.harvard.edu/abs/2021arXiv210105803I/abstract>

A.T. Araudo, **M. Padovani**, A. Marcowith

Particle acceleration and magnetic field amplification in massive young stellar object jets

Astronomy & Astrophysics, in press

<https://ui.adsabs.harvard.edu/abs/2021arXiv210211583A/abstract>

PROCEEDINGS

P. Bolli, P. Di Ninni, M. Bercigli, M. Grazia Labate, G. Virone

Impact of Antenna Response and Mutual Coupling on the Off-Zenith Array Pointing

Proceedings EuCAP2021 (15th European Conference on Antennas and Propagation)

<https://www.eucap.org/>

M. Sokolowski, J. W. Broderick, W. Randall Wayth, D. B. Davidson, S. Tingay, D. Ung, P. Benthem, M. Bercigli, **P.**

Bolli, T. Boler, R. Chiello, G. Comoretto, P. Di Ninni, M. Kovaleva, G. Macario, A. Magro, A. Mattana, J.

Monari, F. Perini, G. Pupillo, M. Schiaffino, A. Sutinjo, A. van Es, G. Virone, M. Waterson

Preliminary Sensitivity Verification of the SKA-Low AAVS2 Prototype

Proceedings EuCAP2021 (15th European Conference on Antennas and Propagation)

<https://www.eucap.org/>

A. J. J. van Es, M. G. Labate, M. F. Waterson, J. Monari, **P. Bolli, D. Davidson, R. Wayth, M. Sokolowski, P. Di Ninni,**

G. Pupillo, **G. Macario, G. Virone, L. Ciorba, F. Paonessa**

A prototype model for evaluating SKA-LOW station calibration

Proceedings SPIE (2020), Ground-based and Airborne Telescopes VIII, 11445

<https://www.spiedigitallibrary.org/conference-proceedings-of-spie/11445/2562391/A-prototype-model-for-evaluating-SKA-LOW-station-calibration/10.1117/12.2562391.short?SSO=1>

OTHER ARTICLES

S. Bianchi

The Ups and Downs (and Ups Again!) of Astrophysics in Italy After Secchi.

Chapter 18 in: Chinnici I., Consolmagno G. (eds) Angelo Secchi and Nineteenth Century Science. Historical & Cultural Astronomy. Springer (2021), 305-322

TECHNOLOGICAL MILESTONES

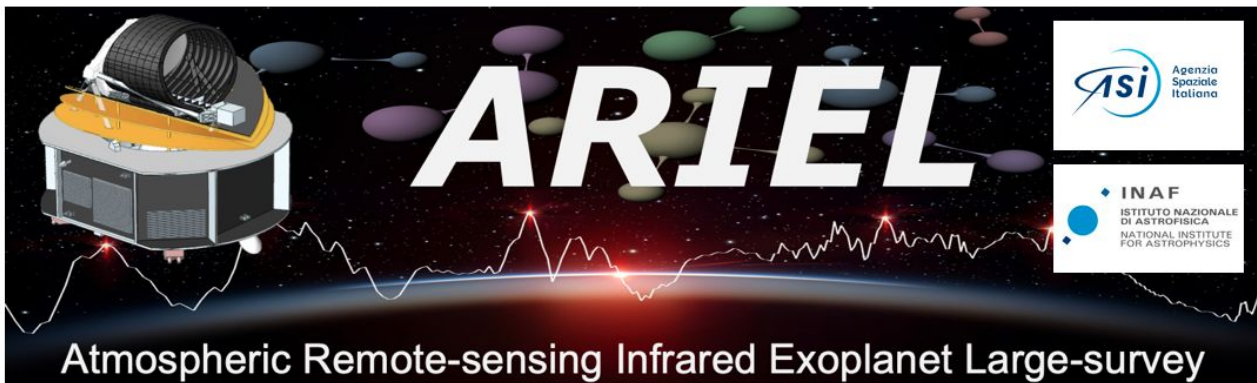
ARIEL: ASI-INAF Scientific Contract

The new ASI-INAF Scientific Contract concerning Ariel has been signed by parties. It will last three years and will fund both the scientific and technological activities of the Ariel Italian Team involved in the Mission, including the local OAA Team. The relevant Kick-off (Virtual) Meeting has been held on March, the 2nd, by teleconference.

Link: <https://arielmission.space/>

INAF-OAA Ariel team (Technology and Science):

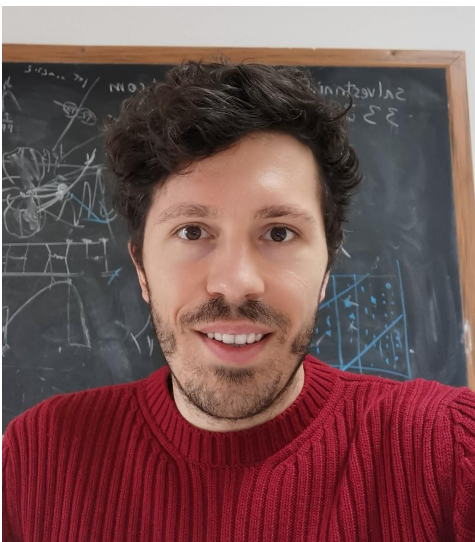
M. Focardi (S,T), A. Tozzi (T), P. Bolli (T), A. Brucalassi (S,T), L. Carbonaro (T), C. Del Vecchio (T), G. Falcini (T), D. Ferruzzi (T), A. Lorenzani (T), R. Nesti (T), N. Sanna (S,T), M. Xompero (T), G. Casali (S), C. Codella (S), D. Fedele (S), A. Garufi (S), L. Magrini (S), L. Podio (S), M. Rainer (S), G. Sacco (S), M. Tsantaki (S), M. Van der Swaelmen (S).



NEW ARRIVALS

POSTDOCTORAL FELLOW

Francesco Salvestrini



I studied Physics and Astrophysics at the University of Florence, then I moved to the University of Bologna where I obtained my Ph.D. degree.

I got a post-doc position at INAF Arcetri to work with Simone Bianchi and Edvige Corbelli on the modelling and analysis of the star-forming ISM in DustPedia galaxies.

My research interests also include the accretion processes in active galactic nuclei (AGN), both at high redshift and in the local Universe, as well as the coevolution between AGN and their host galaxy. I use multi-wavelength observations (from the X-rays to the millimetre band) to distinguish between the different physical processes (star-formation vs. AGN accretion) occurring in galaxies, and to trace different ISM components.