

MONTHLY NEWSLETTER

INAF Osservatorio Astrofisico di Arcetri

ISSUE 5, JAN. 2021

REFEREED PUBLICATIONS

S. Bianchi

The founding of Arcetri Observatory in Florence

Journal of astronomical history and heritage (2020), 23, 3

<http://old.narit.or.th/en/files/2020JAHHvol23/2020JAHH...23..553B.pdf>

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, Ariel Special Issue, in press

<https://www.springer.com/journal/10686>

M. Focardi et al.

The Ariel Instrument Control Unit its role within the Payload and BI Phase design

Experimental Astronomy, Ariel Special Issue, in press

<https://www.springer.com/journal/10686>

A. Garufi, L. Podio, C. Codella, D. Fedele, E. Bianchi, C. Favre, F. Bacciotti, C. Ceccarelli, S. Mercimek, K. Rygl, R. Teague, L. Testi

ALMA chemical survey of disk-outflow sources in Taurus (ALMA-DOT) V: Sample, overview, and demography of disk molecular emission

Astronomy & Astrophysics, in press

<https://arxiv.org/abs/2012.07667>

G. Venturi, G. Cresci, A. Marconi, M. Mingozi, E. Nardini, S. Carniani, F. Mannucci, A. Marasco, R. Maiolino, M. Perna, E. Treister, J. Bland-Hawthorn, J. Gallimore

MAGNUM survey: compact jets causing large turmoil in galaxies -- Enhanced line widths perpendicular to radio jets as tracers of jet-ISM interaction

Astronomy & Astrophysics, in press

<https://arxiv.org/abs/2011.04677>



K. Chae, **F. Lelli**, H. Desmond, S. S. McGaugh, P. Li, J. M. Schombert

Testing the Strong Equivalence Principle: Detection of the External Field Effect in Rotationally Supported Galaxies

The Astrophysical Journal (2020), 904, 1

<https://iopscience.iop.org/article/10.3847/1538-4357/abbb96>

Media INAF: <https://www.media.inaf.it/2020/12/21/verifica-della-mond/>

M. Querejeta, **F. Lelli**, E. Schinnerer, D. Colombo, U. Lisenfeld, C. G. Mundell, F. Bigiel, S. García-Burillo, C. N. Herrera, A. Hughes, J. M. D. Kruijssen, S. E. Meidt, T. J. T. Moore, J. Pety, A. J. Rigby

ALMA Resolves Giant Molecular Clouds in a Tidal Dwarf Galaxy

Astronomy & Astrophysics, in press

<https://arxiv.org/abs/2011.01287>

O. Müller, M. S. Pawlowski, **F. Lelli**, K. Fahrion, M. Rejkuba, M. Hilker, J. Kanehisa, N. Libeskind, H. Jerjen

The coherent motion of Cen A dwarf satellite galaxies remains a challenge for Λ CDM cosmology

Astronomy & Astrophysics Letters, in press

<https://arxiv.org/abs/2012.08138>

O. Müller, K. Fahrion, M. Rejkuba, M. Hilker, **F. Lelli**, K. Lutz, M. S. Pawlowski, L. Coccato, G. S. Anand, H. Jerjen

The properties of dwarf spheroidal galaxies in the Cen A group: Stellar populations, internal dynamics, and a heart-shaped H α ring

Astronomy & Astrophysics, in press

<https://arxiv.org/abs/2011.04990>

NEW ARRIVALS

STAFF RESEARCHER

Federico Lelli



I am an astrophysicist from Ancona (Marche). I studied at the University of Bologna and obtained my Ph.D. degree from the University of Groningen in The Netherlands. Before joining the Arcetri Astrophysical Observatory, I worked at Case Western Reserve University (Cleveland, USA), the European Southern Observatory (Germany), and Cardiff University (UK). My main research interests include the formation and evolution of galaxies, the nature of dark matter, and alternative theories of gravity. In particular, I use multiwavelength observations (from the radio to the X rays) together with dynamical models to investigate the main constituents of galaxies: gas, stars, and the mysterious dark matter.

PHD STUDENT

Georgios Kyriakou



I come from Thessaloniki, Greece. I am a graduate of Electrical and Computer Engineering from AUTH, but I always had a passion for physics and astronomy as well. Currently, I am a PhD student at the University of Florence Physics and Astronomy programme and an INAF research fellow, supervised by Pietro Bolli. My main focus is on Computational Electromagnetism, antenna and microwave theory. In the past I have also been involved in a radioastronomy project at my university, bolstering cooperation between different departments to construct a simple L Band antenna.

Concerto per il Giorno della Memoria, 27 gennaio 2021.

Musiche di *Mario Castelnuovo-Tedesco e Vittorio Rieti.*

Marco Padovani, pianoforte.

Online su [MEDIAINAF TV](#) a partire dal 27 gennaio alle ore 12.

Concert for the International Holocaust Remembrance Day, January 27th, 2021.

Musics by *Mario Castelnuovo-Tedesco
and Vittorio Rieti.*

Marco Padovani, piano.

Online release on [MEDIAINAF TV](#) on January 27th, h 12 am.

The poster features a dark blue background with white text. At the top left is the INAF logo and the text 'ISTITUTO NAZIONALE DI ASTROFISICA OSSERVATORIO ASTROFISICO DI ARCETRI'. At the top right is a white star logo. The main text reads: 'Concerto per il Giorno della Memoria 27 gennaio 2021 INAF Osservatorio Astrofisico di Arcetri'. Below this is the title '“CACCIATI DA UN BEL CASTELLO”' in large, white, serif font. Underneath the title is the text 'Mario Castelnuovo-Tedesco, Vittorio Rieti e Maja Einstein nell'Italia delle leggi razziali'. At the bottom, it says 'Marco Padovani, pianoforte' and 'Media INAF TV'. The bottom edge of the poster is decorated with a stylized piano keyboard graphic.