

PERSONAL INFORMATION

Marcello Giroletti

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Sex Male | Date of birth 19 July 1975 | Nationality Italian

WORK EXPERIENCE

from 16 January 2008

Full time researcher

INAF Istituto di Radioastronomia, Bologna

- Radio astronomy: VLBI and single dish observations and data analysis
- High energy astronomy: *Fermi* gamma-ray satellite observations and data analysis
- Study and interpretation of properties of Active Galactic Nuclei
- The connection between radio and high energy emission in astrophysical sources

EDUCATION AND TRAINING

2006-2007

INAF post-doc fellow for the field of radio interferometry and the use of ALMA

2005

University of Bologna, post-doc fellowship on the physical properties of AGN

2001-2004

University of Bologna, Ph.D. in Astronomy; Thesis title: "Parsec scale properties of low power radio loud AGN"; Awarded on 31 March 2004

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

English (fluent), Spanish (good), French (basic), German (basic)

Computer skills

- Operating systems: OSX, Linux, Windows
- Office
- Programming, Statistics: IDL, python, smongo, Fortran, C++, topcat
- Astronomical Tools and Packages: AIPS, CASA, Difmap, Sched, Fermi science tools

ADDITIONAL INFORMATION

Publications

As of December 2020, I have published 298 papers in international peer-reviewed journals, including multidisciplinary journals (Science, Nature), with over 28000 citations and an H-index of 81. I am the first author in 22 of these papers, the main contact author in one collaboration paper, and the direct supervisor of a first author student in 8 more.

The full list of papers can be found on ADS at <http://goo.gl/7fdO4N>

Five selected publications are listed as follows:

- 1 - Giroletti, M., U. Munari, E. Körding, et al. 2020. Very long baseline interferometry imaging of the advancing ejecta in the first gamma-ray nova V407 Cygni, A&A 638
- 2 - Kravchenko, E., M. Giroletti, K. Hada, et al. 2020. Linear polarization in the nucleus of M87 at 7 mm and 1.3 cm. A&A 637
- 3 - Abdollahi, S., et al. 2020. Fermi Large Area Telescope Fourth Source Catalog. ApJS 247
- 4 - Giroletti, M. and S. Righini 2020. A flat-spectrum flare in S4 0444+63 revealed by a new implementation of multiwavelength single-dish observations. MNRAS 492, 2807-2817.
- 5 - Ghirlanda, G.; Salafia, O. S.; Paragi, Z.; Giroletti, M. et al. 2019. Compact radio emission indicates a structured jet was produced by a binary neutron star merger. Science 363, 968-971

 Presentations
 Conferences
 Seminars

I have participated and contributed to several international conferences, including 11 Invited Talks, and I have given talks and colloquia at various international institutes. A list of the 5 most recent invited talks is given below:

- 1 - "High-energy sources at low radio frequency: the Murchison Widefield Array view of Fermi Blazars " in "The First Pietro Baracchi Conference: Italo-Australian Radio Astronomy in the Era of the SKA", Perth, Australia, October 2016
- 2 - "The radio/gamma-ray connection from 120 MHz to 230 GHz" in "Blazars through Sharp Multi-Wavelength Eyes", Malaga, Spain, June 2016
- 3 - "M87 in a context: the radio gamma ray connection in misaligned AGNs" in "M87 Workshop: Towards the 100th Anniversary of the Discovery of Cosmic Jets", Taipei, Taiwan, May 2016
- 4 - "The Connection Between Radio and Gamma-ray Emission in Relativistic Jets in the Fermi Era and Beyond", in "Relativistic Jets: Creation, Dynamics, and Internal Physics", Krakow, Poland, April 2015
- 5 - "Review on blazar science with mm-VLBI", in "Workshop on mm-VLBI with ALMA", Bologna, Italy, January 2015

I have been the proposer and SOC Chair for the IAU symposium 342 "Perseus in Sicily: from black hole to cluster outskirts" held in Noto (Sicily, Italy), 2018 May 13-18 and I have served as a member of the Scientific Organizing Committee in five international (Blazars through Sharp Multi-Wavelength Eyes 2016, Dissecting the Universe - Workshop on Results from High-Resolution VLBI 2015, Eating VLBI 2014, IAU Joint Discussion 2012, Eating VLBI 2012) and in four national meetings (IV Workshop sull'Astronomia millimetrica e submillimetrica in Italia 2017; Boheme 2012; 2014; AGN Ferrara 2010).

Memberships

Member of the Fermi-LAT collaboration since March 2008 (Full member since 2010)
 Coordinator of the Fermi-LAT AGN Science working group since March 2017
 Member of the CTA consortium since 2014
 Member of the eVSAG since September 2010
 Member of the European VLBI Network Programme Committee March 2012-June 2017
 Referee for ApJ, A&A, MNRAS, New Astronomy
 Referee for Italian Research and University Evaluation Agency (ANVUR), European Research Council, Romanian National Council for Scientific Research and Polish National Science Center
 Member of the IAU Divisions B, D, J

Funding and leadership history

Italian PI of funded Korea-Italy project on "Supermassive Black holes: turning on the most powerful engines in the Universe", duration 2016-2019

National PI of the funded proposal "Towards the SKA and CTA era: discovery, localisation, and physics of transient sources" (Italian PRIN 2016)

National PI of the funded proposal "Relativistic jets at the highest spatial resolution" (Italian PRIN 2011)

National PI of the funded proposal "Identification of gamma-ray bright sources" (ASI-INAF n. I/009/10/0)

Local PI, National Col of the funded proposal "Jet and astro particle physics of gamma ray blazars" (Italian PRIN 2014)

Col of various bi-lateral agreements since 2010 (Italy-Japan, Italy-South Africa)

Col of ASI-INAF contracts for the scientific exploitation of the data from the *Fermi* satellite