

## Paolo Giommi



Position: Director of ASI Science Data Center

Period covered: 1 January – 15 November 2014

### **I Scientific Work**

*Research in multi-frequency and high-energy astrophysics and astro-particles, particularly in the field of AGN and Blazars.*

*Development of new techniques for the analysis of large amounts of archival data*

### **II Conferences and educational activities**

*II a Conferences and Other External Scientific Work*

*II c Diploma thesis supervision of Bruno Arsioli and Carlos Brandt*

### **III. Service activities** *Director of ASI Science Data Center*

*III a. Within ICRANet.*

*Definition and first implementation of the Brazilian Science Data Center.*

### **2014 List of Publication**

1. 2014arXiv1410.3696T (Cited by 4)

*The spectrum of isotropic diffuse gamma-ray emission between 100 MeV and 820 GeV  
The Fermi LAT collaboration; Ackermann, M.; Ajello, M.; Albert, A. and 141 coauthors  
Published in Oct 2014*

2. 2014arXiv1410.0497P

*A simplified view of blazars: the very high energy gamma-ray vision  
Padovani, P.; Giommi, P.  
Published in Oct 2014*

3. 2014ExA...tmp...41R (Cited by 44)

*The PLATO 2.0 mission  
Rauer, H.; Catala, C.; Aerts, C.; Appourchaux, T. and 156 coauthors  
Published in Sep 2014*

4. 2014ATel.6457....1L

*AGILE detects enhanced gamma-ray emission from the FSRQ PKS 0502+049  
Lucarelli, F.; Pittori, C.; Verrecchia, F.; Tavani, M. and 51 coauthors  
Published in Sep 2014*

5. 2014arXiv1409.8101C

*Radio-Gamma-ray connection and spectral evolution in 4C +49.22 (S4 1150+49): the Fermi, Swift and Planck view*  
Cutini, S.; Ciprini, S.; Orienti, M.; Tramacere, A. and 22 coauthors  
Published in Sep 2014

6. 2014ATel.6427....1V

*A new gamma-ray transient, AGL J1608-5253, detected by AGILE in the Galactic Plane*  
Verrecchia, F.; Piano, G.; Tavani, M.; Pittori, C. and 50 coauthors  
Published in Aug 2014

7. 2014ATel.6366....1B

*AGILE detection of a flare from PKS 1510-089*  
Bulgarelli, A.; Tavani, M.; Fioretti, V.; Gianotti, F. and 49 coauthors  
Published in Aug 2014

8. 2014ATel.6365....1B

*AGILE detection of a flare from the FSRQ 3C 279*  
Bulgarelli, A.; Tavani, M.; Fioretti, V.; Gianotti, F. and 49 coauthors  
Published in Aug 2014

9. 2014SPIE.9144E..6AB

*The LOFT ground segment*  
Božžo, E.; Antonelli, A.; Argan, A.; Barret, D. and 26 coauthors  
Published in Jul 2014

10. 2014SPIE.9144E..2TF (Cited by 5)

*The Large Observatory for x-ray timing*  
Feroci, M.; den Herder, J. W.; Božžo, E.; Barret, D. and 340 coauthors  
Published in Jul 2014

11. 2014ApJ...789...20A

*Impulsive and Long Duration High-energy Gamma-Ray Emission from the Very Bright 2012 March 7 Solar Flares*  
Ajello, M.; Albert, A.; Allafort, A.; Baldini, L. and 132 coauthors  
Published in Jul 2014

12. 2014ATel.6234....1B

*Increasing gamma-ray activity of the Blazar 3C 454.3 detected by AGILE*  
Bulgarelli, A.; Tavani, M.; Fioretti, V.; Gianotti, F. and 49 coauthors  
Published in Jun 2014

13. 2014ATel.6231....1P (Cited by 1)

*AGILE detection of a gamma-ray flare from the PSR B1259-63 region*  
Pittori, C.; Verrecchia, F.; Tavani, M.; Fioretti, V. and 49 coauthors  
Published in Jun 2014

14. 2014ATel.6217....1V

*Renewed gamma-ray activity of the Blazar 3C 454.3 detected by AGILE*  
Verrecchia, F.; Fioretti, V.; Lucarelli, F.; Pittori, C. and 49 coauthors  
Published in Jun 2014

15. 2014arXiv1406.1071M (Cited by 2)  
*GAMMA-LIGHT: High-Energy Astrophysics above 10 MeV*  
Morselli, Aldo; Argan, Andrea; Barbiellini, Guido; Bonvicini, Walter and 38 coauthors  
Published in Jun 2014
16. 2014EGUGA..1614567M  
*On the highest photon energy of Terrestrial Gamma-ray Flashes*  
Marisaldi, Martino; Fuschino, Fabio; Tavani, Marco; Dietrich, Stefano and 15 coauthors  
Published in May 2014
17. 2014EGUGA..1611326M  
*The first AGILE low-energy (< 30 MeV) Terrestrial Gamma-ray Flashes catalog*  
Marisaldi, Martino; Fuschino, Fabio; Pittori, Carlotta; Verrecchia, Francesco and 15 coauthors  
Published in May 2014
18. 2014ATel.6182....1V  
*AGILE detects enhanced gamma-ray activity of the Blazar 3C 454.3*  
Verrecchia, F.; Lucarelli, F.; Pittori, C.; Fioretti, V. and 49 coauthors  
Published in May 2014
19. 2014ApJ...784..118B  
*Fermi Large Area Telescope Observations of Blazar 3C 279 Occultations by the Sun*  
Barbiellini, G.; Bastieri, D.; Bechtol, K.; Bellazzini, R. and 105 coauthors  
Published in Apr 2014
20. 2014Natur.506..339G (Cited by 12)  
*Asymmetries in core-collapse supernovae from maps of radioactive  $^{44}\text{Ti}$  in Cassiopeia A*  
Grefenstette, B. W.; Harrison, F. A.; Boggs, S. E.; Reynolds, S. P. and 27 coauthors  
Published in Feb 2014
21. 2014JGRA..119.1337M (Cited by 2)  
*Properties of terrestrial gamma ray flashes detected by AGILE MCAL below 30 MeV*  
Marisaldi, M.; Fuschino, F.; Tavani, M.; Dietrich, S. and 25 coauthors  
Published in Feb 2014
22. 2014yCat..22090034A  
*VizieR Online Data Catalog: The first Fermi-LAT >10GeV catalog (1FHL) (Ackermann+, 2013)*  
Ackermann, M.; Ajello, M.; Allafort, A.; Atwood, W. B. and 73 coauthors  
Published in Jan 2014
23. 2014GCN..16058...1P  
*GRB 140330A: intense and persistent gamma-ray emission detected by AGILE.*  
Pittori, C.; Verrecchia, F.; Bulgarelli, A.; Giuliani, A. and 48 coauthors  
Published in 2014
24. 2014cosp...40E2906S  
*Big and young SMBHs in the early Universe: the case of B2 1023+25*  
Sbarato, Tullia; Tagliaferri, Gianpiero; Madejski, Greg; Harrison, Fiona A. and 6 coauthors  
Published in 2014

25. 2014ApJ...781...19B

*The AGILE Alert System for Gamma-Ray Transients*

Bulgarelli, A.; Trifoglio, M.; Gianotti, F.; Tavani, M. and 25 coauthors

Published in Jan 2014

26. 2014AAS...22343811B

*Results from the 2013 Multi-wavelength Campaign on Mkn 421*

Balokovic, Mislav; Ajello, M.; Blandford, R. D.; Boggs, S. E. and 37 coauthors

Published in Jan 2014

27. 2014AAS...22343806F

*Simultaneous Broadband Observations of Mrk 501 with NuSTAR*

Furniss, Amy; Paneque, D.; Madejski, G. M.; Noda, K. and 6 coauthors

Published in Jan 2014

28. 2014AAS...22343805F

*NuSTAR observatory operations and data analysis*

Forster, Karl; Harrison, F.; Grefenstette, B.; Madsen, K. and 18 coauthors

Published in Jan 2014

*The following articles have been accepted but not published yet:*

29. Arsioli, B, Fraga, B, Giommi P., Padovani, P., Marrese, P.

*1WHSP: an IR based sample of ~1,000 VHE gamma-ray blazars candidates.*

*A&A accepted,*

30. Kepler, S.O., ... Giommi, P.,... et al.

*New White Dwarf Stars in the Sloan Digital Sky Survey Data Release 10''*

*MNRAS, accepted.*