

Best of Fermi 2012

F. Acero



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This yummy Fermi cake

Fermi 2012 - Citations

Database used:

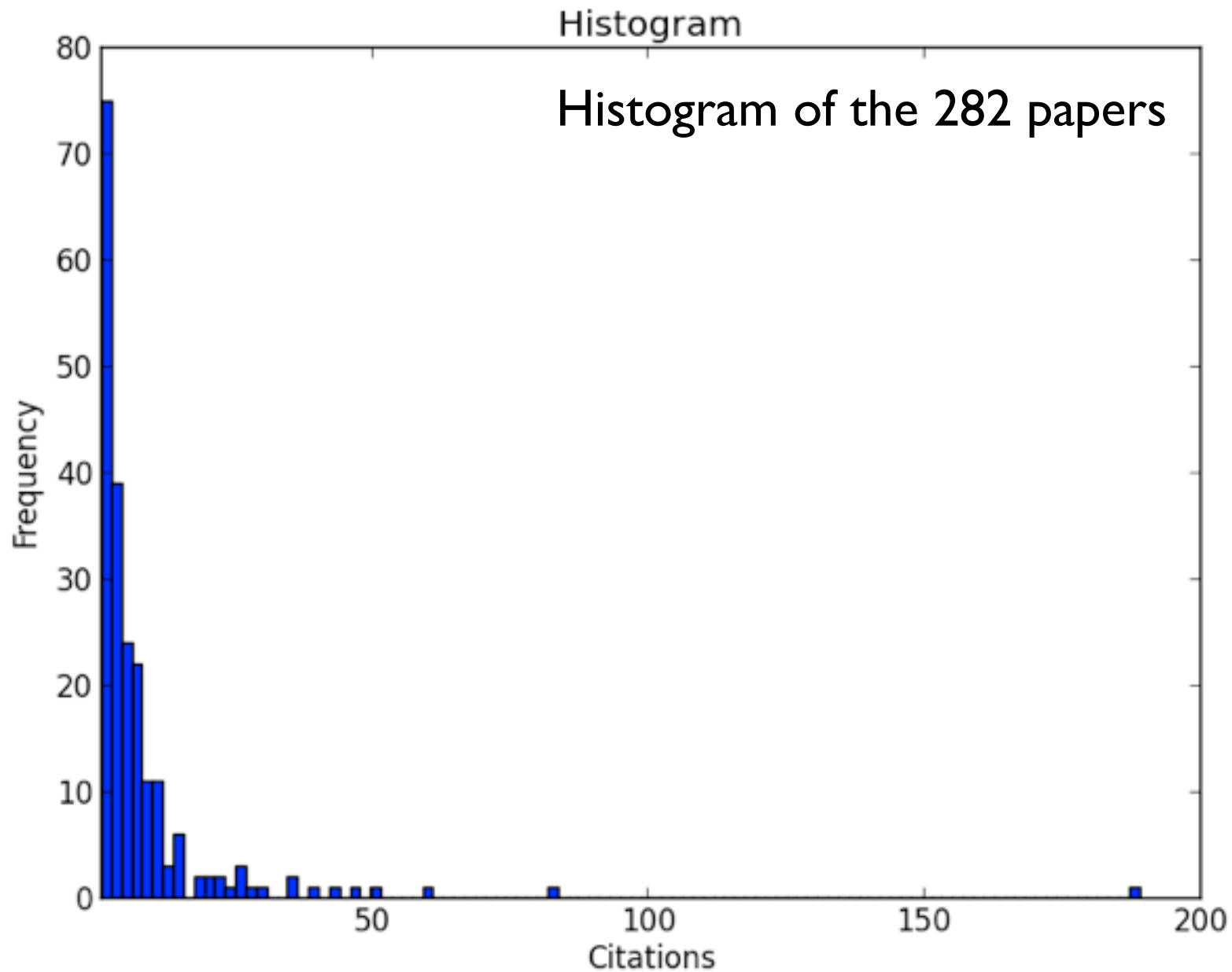
fermi.gsfc.nasa.gov/cgi-bin/bibliography_fermi

example:

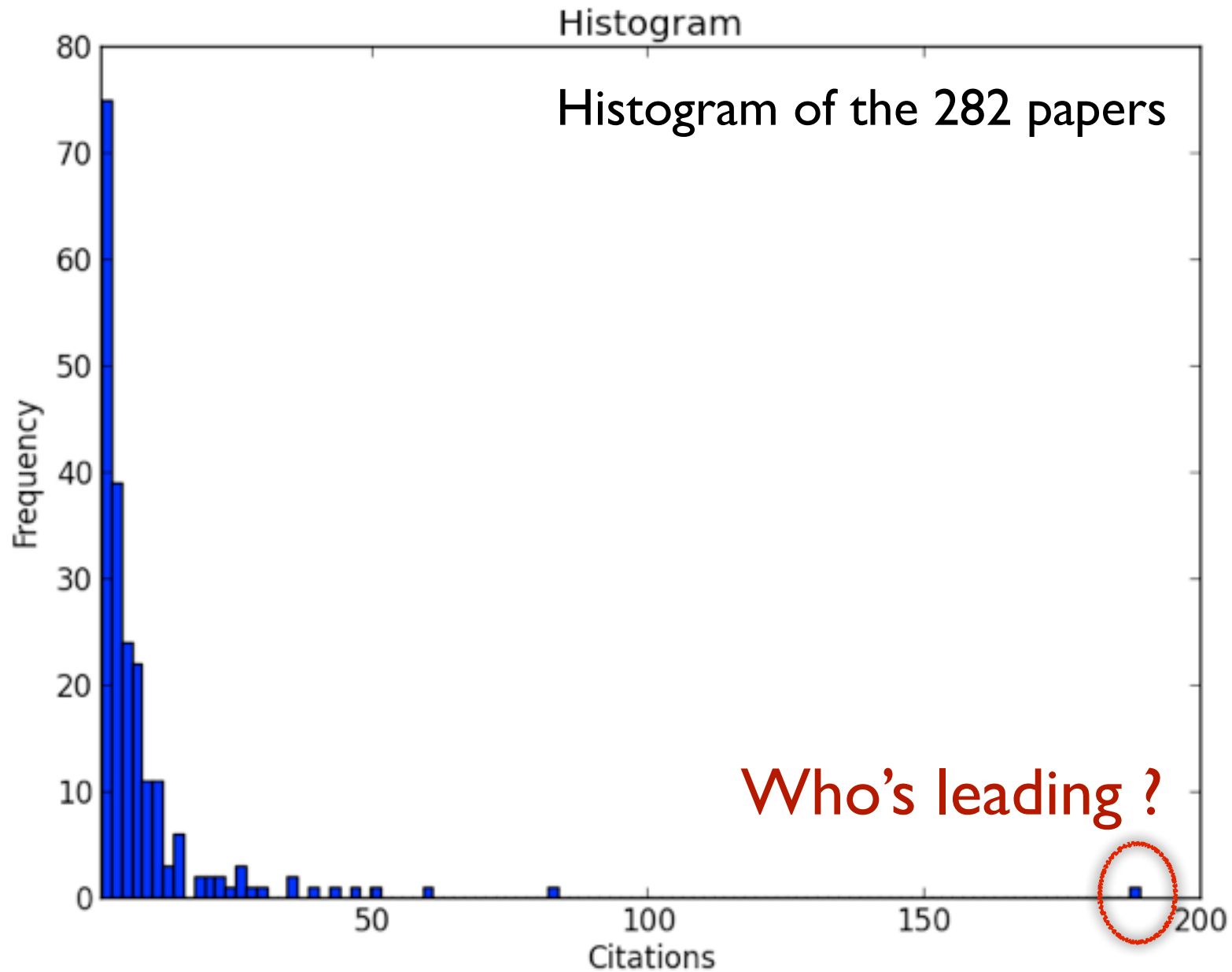
Modify Search		Help		New Search			
Title	Author	Date Published		Bibcode with link to the ADS	Subjects	Category	No. of Citations
Fermi Large Area Telescope Second Source Catalog	Nolan, P.L., et al.	Apr 2012	<input checked="" type="checkbox"/>	2012ApJS...199...31N	Catalogs;	Presents analysis of Fermi data	189
A tentative gamma-ray line from Dark Matter annihilation at the Fermi Large Area Telescope	Weniger, Christoph	Aug 2012	<input checked="" type="checkbox"/>	2012JCAP...08..007W	Dark matter; Cosmic rays;	Presents analysis of Fermi data	83
Fermi LAT search for internal bremsstrahlung signatures from dark matter annihilation	Bringmann, Torsten	Jul 2012	<input checked="" type="checkbox"/>	2012JCAP...07..054B	Dark matter;	Presents analysis of Fermi data	61
Fermi 130 GeV gamma-ray excess and dark matter annihilation in sub-haloes and in the Galactic centre	Tempel, E., Hektor, A., & Raidal, M.	Sep 2012	<input checked="" type="checkbox"/>	2012JCAP...09..032T	Dark matter; Galactic diffuse emission;	Presents analysis of Fermi data	51
Measurement of Separate Cosmic-Ray Electron and Positron Spectra with the Fermi Large Area Telescope	Ackermann, M., et al.	Jan 2012	<input checked="" type="checkbox"/>	2012PhRvL.108a1103A	Cosmic rays;	Presents analysis of Fermi data	47
Fermi LAT search for dark matter in gamma-ray lines and the inclusive photon spectrum	Ackermann, M., et al.	Jul 2012	<input checked="" type="checkbox"/>	2012PhRvD..86b2002A	Dark matter;	Presents analysis of Fermi data	44
130 GeV dark matter and the Fermi gamma-ray line	Cline, James M.	Jul 2012	<input checked="" type="checkbox"/>	2012PhRvD..86a5016C	Dark matter;	Refers to published Fermi results	39

- Papers published from Jan to Oct 2012 (not updated for Nov yet)
- 282 papers in total (present or refer to Fermi results)

Fermi 2012 - Citations



Fermi 2012 - Citations



Fermi 2012 - Top cited papers

Fermi Large Area Telescope Second Source Catalog Nolan, P.L., et al. Apr 2012	189
A tentative gamma-ray line from Dark Matter annihilation at the Fermi Large Area Telescope Weniger, Christoph Aug 2012	83
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130 GeV dark matter and the Fermi gamma-ray line Cline, James M. Jul 2012	39
Gamma-ray lines in the Fermi data: is it a bubble? Profumo, S., & Linden, T. Jul 2012	36
Two lines or not two lines? That is the question of gamma ray spectra Rajaraman, A., Tait, T.M.P., & Whiteson, D. Sep 2012	36

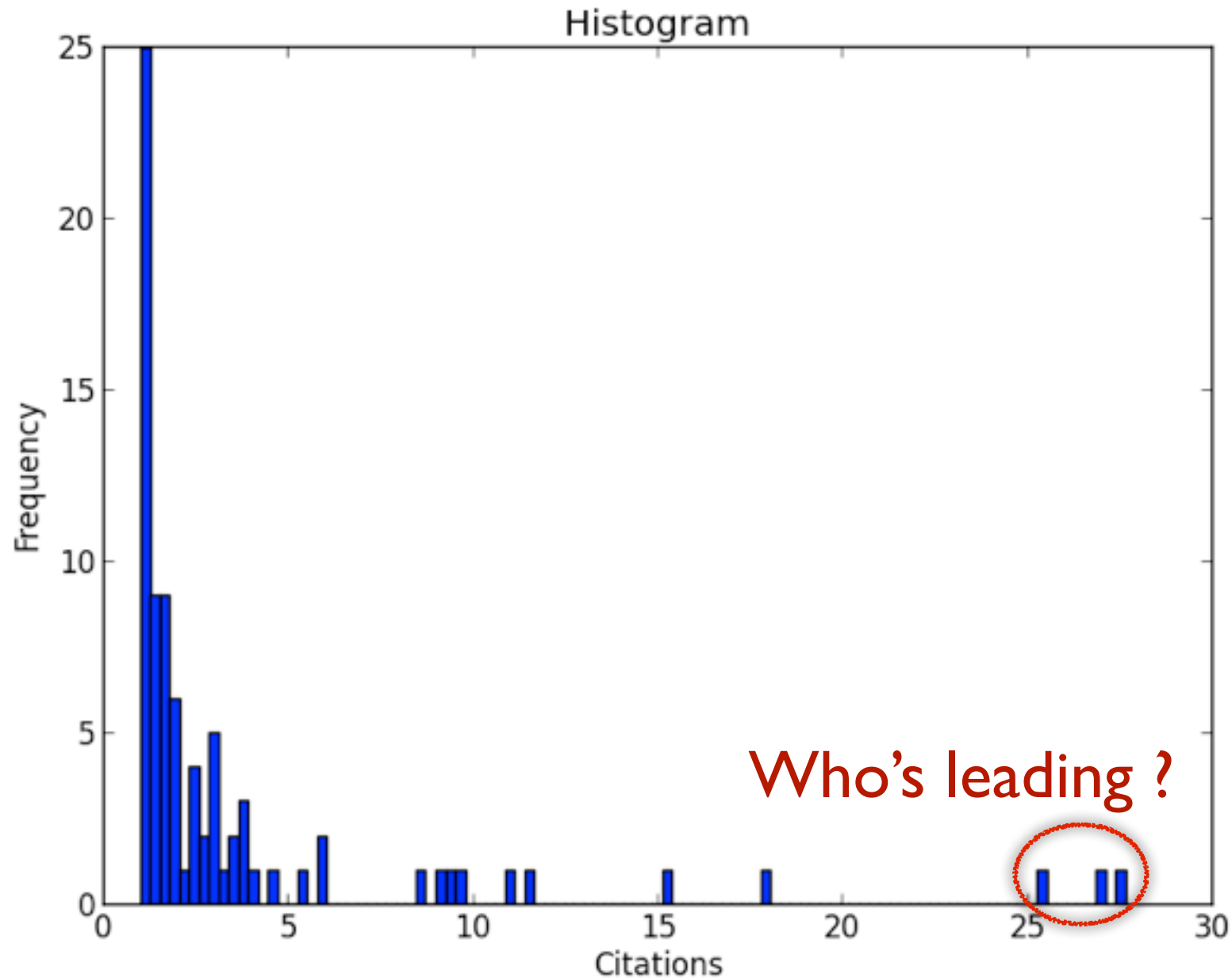
Fermi 2012 - Top cited papers

7/9
DM

Fermi Large Area Telescope Second Source Catalog Nolan, P.L., et al. Apr 2012	189
A tentative gamma-ray line from Dark Matter annihilation at the Fermi Large Area Telescope Weniger, Christoph Aug 2012	83
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Fermi 2012 - Citations/month

total citations/nb of months since publication



Fermi 2012 - Citations/month

A close race

A tentative gamma-ray line from Dark Matter annihilation at the Fermi Large Area Telescope

Weniger, Christoph | 27.67

Fermi Large Area Telescope Second Source Catalog

Nolan, P.L., et al. | 27.00

Fermi 130 GeV gamma-ray excess and dark matter annihilation in sub-haloes and in the GC

Tempel, E., Hektor, A., & Raidal, M. | 25.50

Two lines or not two lines? That is the question of gamma ray spectra

Rajaraman, A., Tait, T.M.P., & Whiteson, D. | 18.00

Fermi LAT search for internal bremsstrahlung signatures from dark matter annihilation

Bringmann, Torsten | 15.25

The Fermi Bubbles. I. Possible Evidence for Recent AGN Jet Activity in the Galaxy

Guo, Fulai & Mathews, W.G. | 11.50

Fermi LAT search for dark matter in gamma-ray lines and the inclusive photon spectrum

Ackermann, M., et al. | 11.00

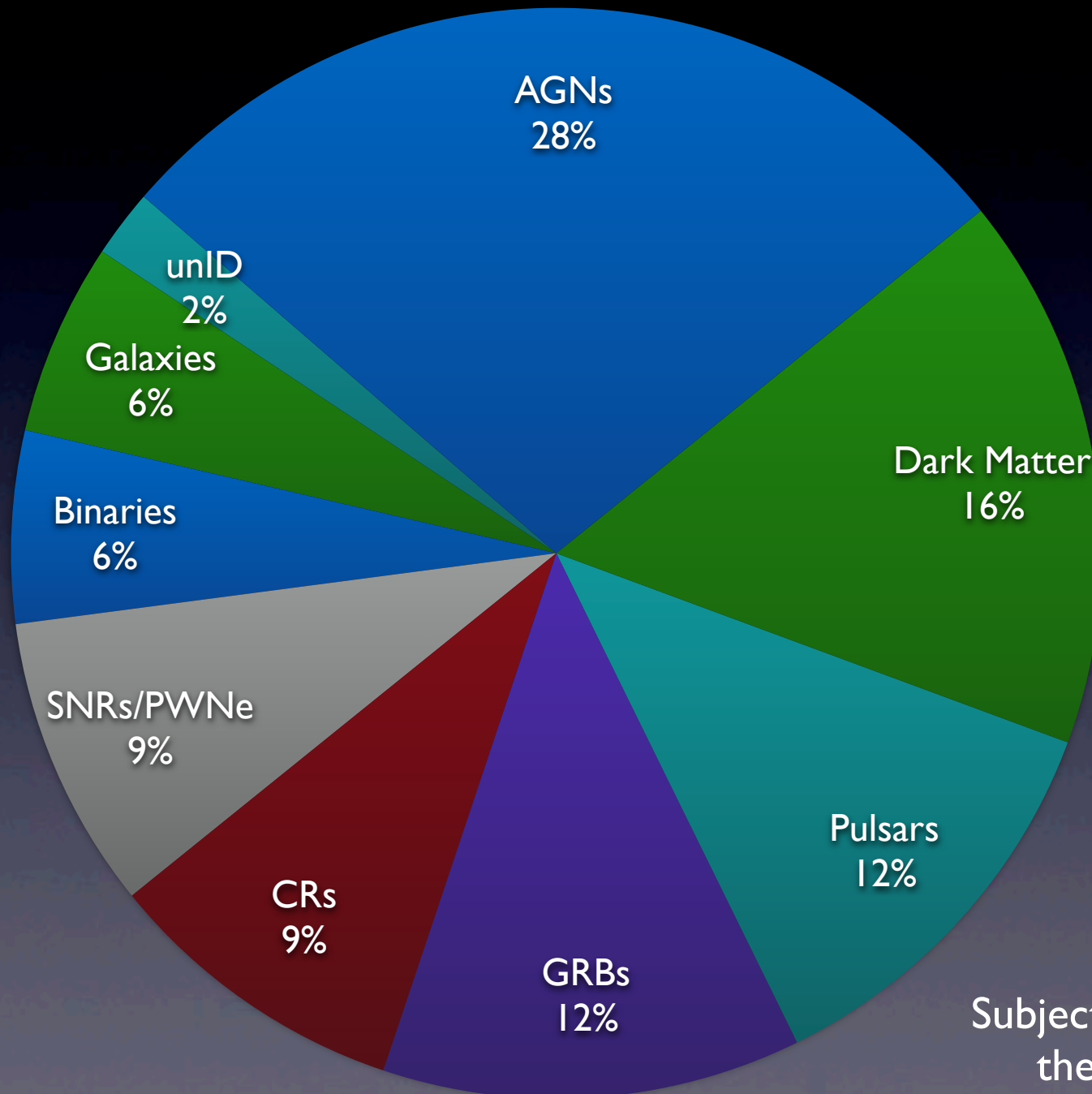
Citations/month since publication

Most cited 2012 paper in ADS

1	<input type="checkbox"/> 2012ApJS..199...31N	226.000	04/2012	A	E	F	X	D	R	C	S	O	U
	Nolan, P. L.; Abdo, A. A.; Ackermann, M.; Fermi Large Area Telescope Second Source Catalog Ajello, M.; Allafort, A.; Antolini, E.; Atwood, W. B.; Axelsson, M.; Baldini, L.; Ballet, J.; and 227 coauthors												
2	<input type="checkbox"/> 2012PhRvL.108m1801A	214.000	03/2012	A	E		X	D	R	C			U
	Abe, Y.; Aberle, C.; Akiri, T.; Indication of Reactor $\bar{\nu}_e$ Disappearance in the Double Chooz Experiment dos Anjos, J. C.; Ardellier, F.; Barbosa, A. F.; Baxter, A.; Bergevin, M.; Bernstein, A.; Bezerra, T. J. C.; and 175 coauthors												
3	<input type="checkbox"/> 2012PhR...513....1C	208.000	03/2012	A	E		X		R	C	S		U
	Clifton, Timothy; Ferreira, Pedro G.; Modified gravity and cosmology Padilla, Antonio; Skordis, Constantinos												
4	<input type="checkbox"/> 2012CEJPh..10....1P	185.000	02/2012	A	E		X		R	C			U
	Profumo, Stefano Dissecting cosmic-ray electron-positron data with Occam's razor: the role of known pulsars												

as of this morning

What are people talking about ?



282 papers

Subjects categories from
the FSSC website

What are people **citing** ?

	Papers	AvgCit
DM	49	14.57
Galaxies	17	8.59
CRs	27	8.19
SNR/PWN	26	4.62
GRBs	37	4.57
AGNs	83	3.58
Pulsars	36	2.69
Unid	6	1.83
Solar	5	1.80
Binaries	17	1.65

AvgCit=Totcit/nb of Papers

2012 conclusions

- If you want to be cited say something about DM :-)
- DM is the hot topic of the year (the 130 GeV effect)

- 2FGL is the most cited 2012 paper in astronomy !!