

# The Smithsonian/NASA Astrophysics Data System

Michael J. Kurtz

Harvard-Smithsonian Center for  
Astrophysics

## Smithsonian/NASA ADS Astronomy Query Form for Michael Kurtz

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Sort options 

#	Bibcode Authors	Score	Date	<a href="#">List of Links</a> <a href="#">Access Control Help</a>		
1	<input type="checkbox"/> <a href="#">2007ApJ...660..311B</a> Brown, Warren R.; Geller, Margaret J.; Kenyon, Scott J.; Kurtz, Michael J.; Bromley, Benjamin C.	1.000	05/2007	<a href="#">A</a> <a href="#">E</a> <a href="#">F</a> <a href="#">L</a> <a href="#">X</a>	<a href="#">R</a> <a href="#">C</a>	<a href="#">U</a>
2	<input type="checkbox"/> <a href="#">2007LPI...38.1240E</a> Eichhorn, G.; Accomazzi, A.; Grant, C. S.; Henneken, E.; Kurtz, M. J.; Bohlen, E. H.; Thompson, D. M.; Murray, S. S.	1.000	03/2007	<a href="#">A</a> <a href="#">F</a>	<a href="#">T</a>	<a href="#">U</a>
3	<input type="checkbox"/> <a href="#">2007AJ....133..882K</a> Kewley, Lisa J.; Brown, Warren R.; Geller, Margaret J.; Kenyon, Scott J.; Kurtz, Michael J.	1.000	03/2007	<a href="#">A</a> <a href="#">E</a> <a href="#">F</a> <a href="#">L</a> <a href="#">X</a>	<a href="#">R</a> <a href="#">C</a>	<a href="#">U</a>
4	<input type="checkbox"/> <a href="#">2007LePub..20...16H</a> Henneken, Edwin A.; Kurtz, Michael J.; Eichhorn, Guenther; Accomazzi, Alberto; Grant, Carolyn S.; Thompson, Donna; Bohlen, Elizabeth; Murray, Stephen S.; Ginsparg, Paul; Warner, Simeon	1.000	01/2007	<a href="#">A</a> <a href="#">E</a> <a href="#">X</a>	<a href="#">R</a>	<a href="#">U</a>
5	<input type="checkbox"/> <a href="#">2006ApJ...653.1194B</a>	1.000	12/2006	<a href="#">A</a> <a href="#">E</a> <a href="#">F</a> <a href="#">L</a> <a href="#">X</a>	<a href="#">R</a> <a href="#">C</a> <a href="#">S</a>	<a href="#">U</a>

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**Title:** SDSS 0809+1729: Connections Between Extremely Metal-Poor Galaxies and Gamma-Ray Burst Hosts

**Authors:** [Kewley, Lisa J.](#); [Brown, Warren R.](#); [Geller, Margaret J.](#); [Kenyon, Scott J.](#); [Kurtz, Michael J.](#)

**Affiliation:** AA(University of Hawaii, Honolulu, HI, USA; [kewley@ifa.hawaii.edu](mailto:kewley@ifa.hawaii.edu)), AB(Smithsonian Astrophysical Observatory, Cambridge, MA, USA; Clay Fellow, Harvard-Smithsonian Center for Astrophysics.), AC(Smithsonian Astrophysical Observatory, Cambridge, MA, USA), AD(Smithsonian Astrophysical Observatory, Cambridge, MA, USA), AE(Smithsonian Astrophysical Observatory, Cambridge, MA, USA)

**Publication:** The Astronomical Journal, Volume 133, Issue 3, pp. 882-888. ([AJ Homepage](#))

**Publication Date:** 03/2007

**Origin:** [UCP](#)

**AJ Keywords:** Galaxies: Abundances, Galaxies: Dwarf, Galaxies: Fundamental Parameters, Galaxies: Starburst, Gamma Rays: Bursts

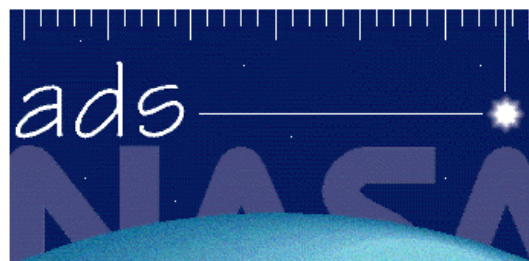
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**DOI:** [10.1086/509135](https://doi.org/10.1086/509135)

**Bibliographic Code:** 2007AJ....133..882K

### Abstract

We discuss the serendipitous discovery of an extremely metal-poor galaxy, SDSS 0809+1729, classified as a star in the Sloan Digital Sky Survey (SDSS). The galaxy has a redshift  $z=0.0441$  and a B-band absolute magnitude  $M_B=-17.1$ . With a metallicity of  $\log(O/H)+12\sim 7.44$  or  $\sim 1/20$  solar, this galaxy is among the 10 most metal-poor emission-line galaxies known. SDSS 0809+1729 is a blue compact galaxy (BCG) with a stellar age of  $\sim 4.5$  Myr, a star formation rate of  $0.18 M_{\text{solar}} \text{ yr}^{-1}$ , and a large gas-phase electron density ( $\sim 367 \text{ cm}^{-3}$ ). Similar values of these parameters are common among other extremely metal-poor galaxies, including I Zw 18. SDSS 0809+1729 is, however, unusual among BCGs because it lies in the same region of the luminosity-metallicity diagram as the two lowest metallicity long-duration gamma-ray burst (GRB)



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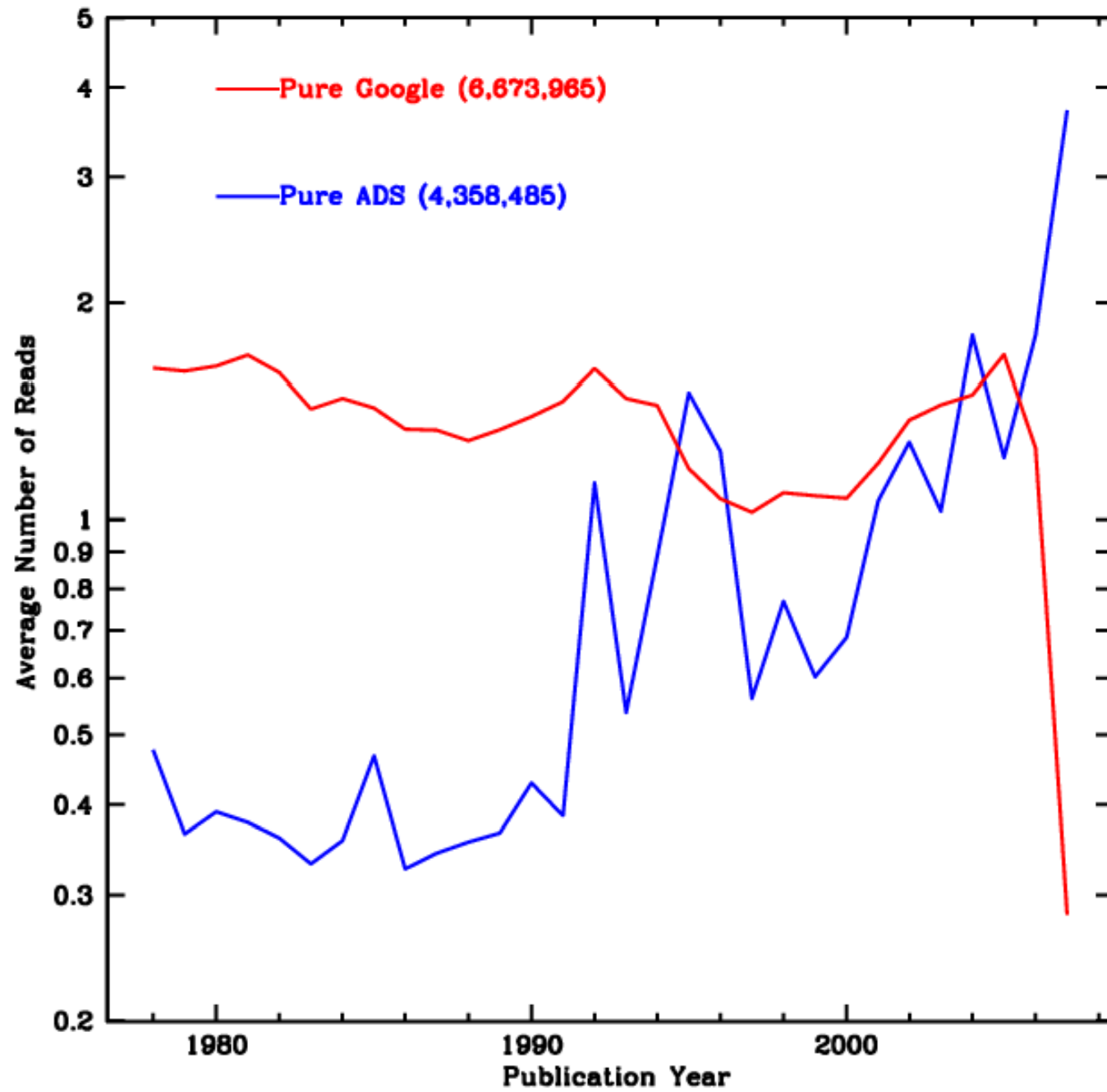
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- Top cited articles by subject
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1	<input type="checkbox"/> <a href="#">1985ApJ...292..371D</a> Davis, M.; Efstathiou, G.; Frenk, C. S.; White, S. D. M.	1114.000 The evolution of large-scale structure in a universe dominated by cold dark matter	05/1985	<a href="#">A</a> <a href="#">F</a> <a href="#">G</a> <a href="#">R</a> <a href="#">C</a> <a href="#">U</a> <a href="#">H</a>
2	<input type="checkbox"/> <a href="#">1996MNRAS.283.1388M</a> Madau, Piero; Ferguson, Henry C.; Dickinson, Mark E.; Giavalisco, Mauro; Steidel, Charles C.; Fruchter, Andrew	1050.000 High-redshift galaxies in the Hubble Deep Field: colour selection and star formation history to z~4	12/1996	<a href="#">A</a> <a href="#">F</a> <a href="#">G</a> <a href="#">X</a> <a href="#">D</a> <a href="#">R</a> <a href="#">C</a> <a href="#">S</a> <a href="#">N</a> <a href="#">U</a> <a href="#">H</a>
3	<input type="checkbox"/> <a href="#">1983ApJ...267..465D</a> Davis, M.; Peebles, P. J. E.	1009.000 A survey of galaxy redshifts. V - The two-point position and velocity correlations	04/1983	<a href="#">A</a> <a href="#">F</a> <a href="#">G</a> <a href="#">R</a> <a href="#">C</a> <a href="#">S</a> <a href="#">O</a> <a href="#">U</a> <a href="#">H</a>
4	<input type="checkbox"/> <a href="#">1979AJ.....84.1511T</a> Tonry, J.; Davis, M.	951.000 A survey of galaxy redshifts. I - Data reduction techniques	10/1979	<a href="#">A</a> <a href="#">F</a> <a href="#">G</a> <a href="#">R</a> <a href="#">C</a> <a href="#">S</a> <a href="#">N</a> <a href="#">O</a> <a href="#">U</a> <a href="#">H</a>
5	<input type="checkbox"/> <a href="#">2004PhRvD..69j3501T</a> Tegmark, Max; Strauss, Michael A.; Blanton, Michael R.; Abazajian, Kevork; Dodelson, Scott; Sandvik, Havard; Wang, Xiaomin; Weinberg, David H.; Zehavi, Idit; Bahcall, Neta A.; <a href="#">and 57 coauthors</a>	818.000 Cosmological parameters from SDSS and WMAP	05/2004	<a href="#">A</a> <a href="#">E</a> <a href="#">L</a> <a href="#">X</a> <a href="#">R</a> <a href="#">C</a> <a href="#">U</a> <a href="#">H</a>

6	<input type="checkbox"/> <a href="#">1994ApJ...407..477</a>	666.000	03/1994	<a href="#">A</a> <a href="#">F</a> <a href="#">G</a> <a href="#">X</a> <a href="#">R</a> <a href="#">C</a> <a href="#">U</a> <a href="#">H</a>
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1	<input type="checkbox"/> <a href="#">2007arXiv0705.0142Z</a> Zbigniew Stanek, Krzysztof	1.000	05/2007	<a href="#">A</a> <a href="#">X</a>
2	<input type="checkbox"/> <a href="#">2007ApJ...660..311B</a> Brown, Warren R.; Geller, Margaret J.; Kenyon, Scott J.; Kurtz, Michael J.; Bromley, Benjamin C.	1.000	05/2007	<a href="#">A</a> <a href="#">E</a> <a href="#">F</a> <a href="#">L</a> <a href="#">X</a> <a href="#">R</a> <a href="#">C</a> <a href="#">U</a>
3	<input type="checkbox"/> <a href="#">2007WRR....4304412U</a> Ursino, N.	1.000	04/2007	<a href="#">A</a> <a href="#">E</a> <a href="#">F</a> <a href="#">L</a>
4	<input type="checkbox"/> <a href="#">2007PhRvL..98q1302F</a> Farrar, Glennys R.; Rosen, Rachel A.	1.000	04/2007	<a href="#">A</a> <a href="#">E</a> <a href="#">L</a> <a href="#">R</a> <a href="#">U</a>
5	<input type="checkbox"/> <a href="#">2007MNRAS.tmp..252D</a> Diaz-Sánchez, Anastasio; Villo-Pérez, Isidro; Pérez-Garrido, Antonio; Rebolo, Rafael	1.000	04/2007	<a href="#">A</a> <a href="#">E</a> <a href="#">F</a> <a href="#">L</a> <a href="#">X</a> <a href="#">R</a> <a href="#">U</a>
6	<input type="checkbox"/> <a href="#">2007arXiv0704.3520A</a> Aouiche, Kamel; Darmont, Jérôme	1.000	04/2007	<a href="#">A</a> <a href="#">X</a> <a href="#">R</a> <a href="#">U</a>
7	<input type="checkbox"/> <a href="#">2007arXiv0704.3034L</a>	1.000	04/2007	<a href="#">A</a> <a href="#">X</a> <a href="#">R</a> <a href="#">U</a>

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<a href="#">default</a>	3	<input type="button" value="Update library"/> <input type="button" value="Delete library"/>
<a href="#">mu</a>	145	<input type="button" value="Update library"/> <input type="button" value="Delete library"/>
<a href="#">mypapers</a>	206	<input type="button" value="Update library"/> <input type="button" value="Delete library"/>
<a href="#">rubin</a>	19	<input type="button" value="Update library"/> <input type="button" value="Delete library"/>


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1	<input type="checkbox"/> <a href="#">2006MNRAS.372...60A</a> Andreon, S.; Cuillandre, J.-C.; Puddu, E.; Mellier, Y.	1.000	10/2006	<a href="#">A</a> <a href="#">E</a> <a href="#">F</a> <a href="#">L</a> <a href="#">X</a> <a href="#">R</a> <a href="#">C</a> <a href="#">S</a> <a href="#">U</a>
	<i>Private Note: Best Evidence for CM relation</i>			
2	<input type="checkbox"/> <a href="#">2006astro.ph..5417N</a> Nolan, Louisa A.; Dunlop, J. S.; Panter, B.; Jimenez, Raul; Heavens, A. F.; Smith, G.	1.000	05/2006	<a href="#">A</a> <a href="#">E</a> <a href="#">F</a> <a href="#">X</a> <a href="#">R</a> <a href="#">U</a> <a href="#">H</a>
3	<input type="checkbox"/> <a href="#">2006astro.ph..5370S</a> Sarajedini, Vicki L.; Koo, David C.; Phillips, Andrew C.; Kobulnicky, Henry A.; Gebhardt, Karl; Willmer, Christopher N. A.; Vogt, Nicole P.; Laird, Elise; Im, Myungshin; Iverson, Sarah; Mattos, Wanessa	1.000	05/2006	<a href="#">A</a> <a href="#">E</a> <a href="#">F</a> <a href="#">X</a> <a href="#">R</a> <a href="#">U</a> <a href="#">H</a>
4	<input type="checkbox"/> <a href="#">2006astro.ph..5303B</a> Blake, Chris; Collister, Adrian; Bridle, Sarah; Lahav, Ofer	1.000	05/2006	<a href="#">A</a> <a href="#">E</a> <a href="#">F</a> <a href="#">X</a> <a href="#">R</a> <a href="#">U</a> <a href="#">H</a>
5	<input type="checkbox"/> <a href="#">2006astro.ph..5302P</a> Padmanabhan, N.; Schlegel, D. J.; Seljak, U.; Makarov, A.; Bahcall, N. A.; Blanton, M. R.	1.000	05/2006	<a href="#">A</a> <a href="#">X</a> <a href="#">R</a> <a href="#">C</a> <a href="#">U</a> <a href="#">H</a>



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This button brings up a query form that returns only articles selected from the above list. This allows you to further refine the previous query.


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Sort options 

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1	<input type="checkbox"/> <a href="#">1996AJ....111.1748F</a> Fukugita, M.; Ichikawa, T.; Gunn, J. E.; Doi, M.; Shimasaku, K.; Schneider, D. P.	357.000 The Sloan Digital Sky Survey Photometric System	04/1996	<a href="#">A</a> <a href="#">F</a> <a href="#">G</a> <a href="#">R</a> <a href="#">C</a> <a href="#">S</a> <a href="#">U</a> <a href="#">H</a>
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