

You have selected the following parameters to search on:

Redshift: Between 0.016400 and 0.029800
Include ANY Object Type:
Exclude ANY Object Type:
Parameters for Distances and Cosmology: $H_0 = 73.0$; $\Omega_{\text{matter}} = 0.27$; $\Omega_{\text{vacuum}} = 0.73$;
Derived Quantities use a Redshift corrected to a Reference Frame defined by the 3K CMB

NED results within 15.000 arcmin of 13h04m29.03000s, +31d13m08.2300s (Equatorial: J2000.0)

2 objects found in NED.

SOURCE LIST														
Object list is sorted on Distance to search center														
Row No.	Object Name (* => Essential Note)	EquJ2000.0		Object Type	Velocity/Redshift		Mag./Filter	Separ. arcmin	Refs	Notes	Number of			
		RA	DEC		km/s	z					Phot	Posn	Vel/z	Diam As
1	SDSS J130429.69+311625.2	13h04m29.7s	+31d16m25s	G	6946	0.023168	17.8g	3.286	2	0	15	1	3	4
2	SDSS J130325.74+311903.2	13h03m25.7s	+31d19m03s	G	7745	0.025836	18.1g	14.761	3	0	21	2	3	4

Detailed information for each object

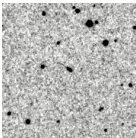
Object No. 1 - SDSS J130429.69+311625.2

INDEX for SDSS J130429.69+311625.2

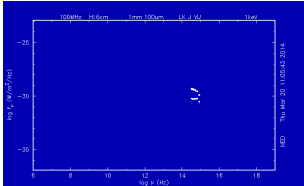
Essential Data (jump to sub-section of this query report):

[Essential Note](#)
[Cross-IDs](#)
[Coordinates](#)
[Basic Data](#)
[Quantities Derived from Redshift](#)
[Redshift-Independent Distances](#)
[Quick-Look Photometry and Luminosities](#)
[NEW Quick-Look Angular and Physical Sizes](#)
[Classifications](#)
[Foreground Galactic Extinction](#)
[External Services](#)

Detailed Data (NED queries):



Images



15 Photometric data point(s) and SED

[Spectra](#)
[Redshift-Independent Distances](#)
[2 Reference\(s\)](#)
[1 Position data point\(s\)](#)
[3 Redshift data point\(s\)](#)
[4 Diameter data point\(s\)](#)
[1 Association\(s\)](#)

ESSENTIAL NOTE for SDSS J130429.69+311625.2 (Back to INDEX)

N/A

CROSS-IDENTIFICATIONS for SDSS J130429.69+311625.2 (Back to INDEX)

Object Names	Type	Object Names	Type
SDSS J130429.69+311625.2	G	LEDA 1939609	G
ASK 518129.0	G		

COORDINATES for SDSS J130429.69+311625.2 (Back to INDEX)

Position Reference:[2007SDSS6.C...0000:](#)

Reference	Frame	Longitude (degrees)	Latitude (degrees)	RA	DEC	Uncertainty Ellipse (arcsec)		
						Semimajor	Seminor	PA(deg)
Equatorial	(B1950.0)	195.529394	31.541471	13h02m07.054s	+31d32m29.30s	5.00E-01	5.00E-01	0

ned.ipac.caltech.edu/cgi-bin/objsearch?in_csys=Equatorial&in_equinox=J2000.0&lon=13h04m29.03s&lat=%2B31d13m8.23s&radius... 1/7

Equatorial (J2000.0)	196.123719	31.273677	13h04m29.692s	+31d16m25.24s	5.00E-01	5.00E-01	0
Ecliptic (B1950.0)	180.083827	34.799990			5.00E-01	5.00E-01	0
Ecliptic (J2000.0)	180.786868	34.799448			5.00E-01	5.00E-01	0
Galactic	89.212493	84.970519			5.00E-01	5.00E-01	0
SuperGalactic	86.594955	10.053739			5.00E-01	5.00E-01	0

Additional detailed measurements with references are also available by clicking below:

[1 Position data point\(s\)](#)

REDSHIFT-INDEPENDENT DISTANCES for SDSS J130429.69+311625.2 [\(Back to INDEX\)](#)

N/A

CLASSIFICATIONS (TYPES, ATTRIBUTES) for SDSS J130429.69+311625.2 [\(Back to INDEX\)](#)

N/A

FOREGROUND GALACTIC EXTINCTION for SDSS J130429.69+311625.2 [\(Back to INDEX\)](#)

NEW Galactic Extinction from the [Schlafly & Finkbeiner 2011, Appendix: 2011ApJ...737..1035 \(SF11\)](#) recalibration of the [Schlegel, Finkbeiner & Davis 1998, Appendix B: 1998ApJ...500..525S \(SFD98\)](#) infrared-based dust map. The map is based on dust emission from COBE/DIRBE and IRAS/ISSA; the recalibration assumes a [Fitzpatrick \(1999PASP...111...63F\)](#) reddening law with $R_V = 3.1$ and different source spectrum than SFD98.

	L a n d o l t					S D S S					U K I R T			
Filter [μm]	U (0.35)	B (0.43)	V (0.54)	R (0.64)	I (0.80)	u (0.36)	g (0.47)	r (0.62)	i (0.75)	z (0.89)	J (1.25)	H (1.66)	K (2.19)	L' (3.78)
A _λ [mag]	0.042	0.035	0.026	0.021	0.014	0.041	0.032	0.022	0.016	0.012	0.007	0.004	0.003	0.001

[Show/Hide A_λ magnitudes in all 88 photometric bands based on SF11](#)

For completeness, we include the original SFD98 values:

	L a n d o l t					S D S S					U K I R T			
Filter [μm]	U (0.34)	B (0.44)	V (0.54)	R (0.65)	I (0.81)	u (0.35)	g (0.49)	r (0.63)	i (0.78)	z (0.93)	J (1.27)	H (1.67)	K (2.22)	L' (3.81)
A _λ [mag]	0.052	0.041	0.032	0.026	0.019	0.049	0.036	0.026	0.020	0.014	0.009	0.006	0.004	0.001

Galactic Extinction based on H I Column Densities and Galaxy Counts ([Burstein & Heiles; 1982AJ.....87.1165B](#)) assuming $R_V = 3.1$:

$A_B = 0.040$ mag

See [Notes on Galactic Extinction](#) for important caveats.

BASIC DATA for SDSS J130429.69+311625.2 [\(Back to INDEX\)](#)

Helio. Radial Velocity : 6946 +/- 11 km/s
Redshift : 0.023168 +/- 0.000036 [2007SDSS6.C...0000:](#)
Major Diameter (arcmin) : 0.35
Minor Diameter (arcmin) : 0.11
Magnitude and Filter : 17.8g
Classifications : Extended Src [SDSS]

NOTE: This information is indicative only. With the exception of the redshift they are unreferenced and highly inhomogeneous as to their origin. The Radial Velocity (when available) is computed from the listed redshift. The remaining values are designed to orient the user with a quick-look, overall assessment of the general properties of the object in question. They are not averages nor are they standardized in any way.

Additional detailed measurements with references are also available by clicking below:

[3 Redshift data point\(s\)](#) [15 photometric data point\(s\)](#) [4 Diameter data point\(s\)](#)

QUANTITIES DERIVED FROM REDSHIFT for SDSS J130429.69+311625.2 [\(Details\)](#)[\(Back to INDEX\)](#)

Calculated and Corrected Velocities
V (Heliocentric) : 6946 +/- 11 km/s [2007SDSS6.C...0000:](#)
V (Kinematic LSR) : 6955 +/- 11 km/s [1986MNRAS.221.1023K](#)
V (Galactocentric GSR) : 6973 +/- 11 km/s [1991RC3.9.C...0000d](#)

V (Local Group)	:	6951 +/-	11 km/s	1996AJ...111..794K
V (3K CMB)	:	7200 +/-	21 km/s	1996ApJ...473..576F
V (Virgo Infall only)	:	7170 +/-	19 km/s	2000ApJ...529..786M
V (Virgo + GA only)	:	7463 +/-	28 km/s	2000ApJ...529..786M
V (Virgo + GA + Shapley)	:	7512 +/-	28 km/s	2000ApJ...529..786M
Hubble Flow Distance and Distance Modulus (where H ₀ = 73.0 +/- 5 km/sec/Mpc)				
D (Galactocentric GSR)	:	95.5 +/-	6.7 Mpc	(m-M) = 34.90 +/- 0.15 mag
D (Local Group)	:	95.2 +/-	6.7 Mpc	(m-M) = 34.89 +/- 0.15 mag
D (3K CMB)	:	98.6 +/-	6.9 Mpc	(m-M) = 34.97 +/- 0.15 mag
D (Virgo Infall only)	:	98.2 +/-	6.9 Mpc	(m-M) = 34.96 +/- 0.15 mag
D (Virgo + GA only)	:	102.2 +/-	7.2 Mpc	(m-M) = 35.05 +/- 0.15 mag
D (Virgo + GA + Shapley)	:	102.9 +/-	7.2 Mpc	(m-M) = 35.06 +/- 0.15 mag

Scale at Hubble Flow Distances				
Scale (Galactocentric GSR)	:	463 pc/arcsec	= 0.463 kpc/arcsec	= 27.79 kpc/arcmin = 1.67 Mpc/degree
Scale (Local Group)	:	462 pc/arcsec	= 0.462 kpc/arcsec	= 27.70 kpc/arcmin = 1.66 Mpc/degree
Scale (3K CMB)	:	478 pc/arcsec	= 0.478 kpc/arcsec	= 28.69 kpc/arcmin = 1.72 Mpc/degree
Scale (Virgo Infall only)	:	476 pc/arcsec	= 0.476 kpc/arcsec	= 28.57 kpc/arcmin = 1.71 Mpc/degree
Scale (Virgo + GA only)	:	496 pc/arcsec	= 0.496 kpc/arcsec	= 29.74 kpc/arcmin = 1.78 Mpc/degree
Scale(Virgo + GA + Shapley):	:	499 pc/arcsec	= 0.499 kpc/arcsec	= 29.93 kpc/arcmin = 1.80 Mpc/degree

To Search for Nearby Objects (Physical Companions): Enter Your Preferred Values and click on "Submit Environment Search" button

Search for Objects within +/- arcmin where 100 kpc = 3.341 arcmin

and Selected Redshift, defined by the Velocity Range: from to km/sec where

V(Heliocentric) = 6946 km/sec

Cosmology-Corrected Quantities [H ₀ = 73.00 km/sec/Mpc, Ω _{matter} = 0.27, Ω _{vacuum} = 0.73]				
[Redshift 0.024016 as corrected to the Reference Frame defined by the 3K Microwave Background Radiation]				
Luminosity Distance	:	101 Mpc	(m-M) = 35.01 mag	
Angular-Size Distance	:	95.8 Mpc	(m-M) = 34.91 mag	
Co-Moving Radial Distance	:	98.1 Mpc	(m-M) = 34.96 mag	
Co-Moving Tangential Dist.	:	98.1 Mpc	(m-M) = 34.96 mag	
Co-Moving Volume	:	0.00396 Gpc ³		
Light Travel-Time	:	0.316 Gyr		
Age at Redshift 0.024016	:	12.983 Gyr		
Age of Universe	:	13.299 Gyr		
Scale (Cosmology Corrected):	:	465 pc/arcsec	= 0.465 kpc/arcsec	= 27.88 kpc/arcmin = 1.67 Mpc/degree
Surface Brightness Dimming	:	Flux Density per Unit Area = 0.90944; Magnitude per Unit Area = 0.1031 mag		

To change Cosmological Input Parameters for Derived Quantities: Enter Your Preferred Values and click on "Submit Changed Hubble Parameters for this object" button

H₀ Ω_{matter} Ω_{vacuum}

Correct Redshift To the Reference Frame defined by: as Input for Calculation

of the Distances and Cosmology-Corrected Quantities

QUICK-LOOK PHOTOMETRY and LUMINOSITIES for SDSS J130429.69+311625.2 ([Back to INDEX](#))

The brightest flux in each of the following spectral regions, when available:
Gamma-Ray (ν > 2E19 Hz); X-Ray (2E19 Hz > ν > 2E16 Hz); Ultraviolet (2E16 Hz > ν > 9E14 Hz); Visual (9E14 Hz > ν > 3E14 Hz); Near-Infrared (3E14 Hz > ν > 6E13 Hz); Mid-Infrared (6E13 Hz > ν > 7.5E12 Hz); Far-Infrared (7.5E12 Hz > ν > 1E12 Hz); Sub-Millimeter (1E12 Hz > ν > 3E11 Hz); Millimeter (3E11 Hz > ν > 3E10 Hz); Radio (3E10 Hz > ν).

Spectral Region	Band	Apparent Mag or Flux	Refcode	Absolute Mag or νL _ν [W]	νL _ν [L _⊙ (Bolometric)]
Visual	z (SDSS CModel) AB	17.140 asinh mag	2007SDSS6.C...0000:	-17.87 [mag]	5.08E+08

NOTE: The above quantities are derived using a Distance Modulus of 35.01 mag corresponding to a Luminosity Distance of 100.5 Mpc [assuming 10%uncertainty] using the [Cosmology-Corrected Quantities](#).
The quantities quoted above have not necessarily been corrected for foreground extinction, and no K-Corrections have been applied.

View details and SED for [15 Photometric data point\(s\)](#) available in NED.

NEW QUICK-LOOK ANGULAR & PHYSICAL DIAMETERS for SDSS J130429.69+311625.2 ([Back to INDEX](#))

The largest diameters in the Visual and Near-Infrared spectral regions, when available:

Passband	Apparent Major Axis (2a) [arcsec]	Apparent Minor Axis (2b) [arcsec]	PA [degrees] (J2000.0)	Reference Level	Refcode	Physical Major Axis (2a) [kpc]	Physical Minor Axis (2b) [kpc]
r (SDSS	21.96	7.25	52	25.0 mag	2007SDSS6.C...0000:	10.96	3.62

Isophotal)

arcsec^-2^

NOTE: At $z \leq 0.5$, physical diameters are derived using a [Scale at the Hubble Flow Distance \(Virgo + GA + Shapley\)](#) of 0.499 kpc/arcsec. The quantities quoted above have not necessarily been corrected for foreground extinction.

View details for [4 Diameter data point\(s\)](#) available in NED.

EXTERNAL ARCHIVES AND SERVICES for SDSS J130429.69+311625.2 [Help \(Back to INDEX\)](#)

Data Related Directly to Object Names	Site/Service
Query SIMBAD by primary NED object name -- SDSS J130429.69+311625.2	SIMBAD (CDS, Strasbourg, France)
Query SDSS Sky Server -- SDSS J130429.69+311625.2	SDSS Sky Server
Retrieve mean data from LEDA -- PGC 1939609	The Lyon/Meudon Extragalactic Database (LEDA)
Query GALEX (NUV/FUV) Mission Archive (6" search radius) -- SDSS J130429.69+311625.2	GALEX Mission Data Archive at MAST
Explore IRSA resources with RADAR (10" search radius) -- SDSS J130429.69+311625.2	NASA/IPAC Infrared Science Archive (IRSA)
General Archive Resources -- All queries centered at 13h04m29.7s, +31d16m25s (J2000)	Site/Service
Query Optical and UV Mission Archives (Default search radius)	Multimission Archive at STScI (MAST)
Query High Energy Mission Archives (Default search radius)	HEASARC (NASA/GSFC)
Explore resources with DataScope (15' search radius)	HEASARC (NASA/GSFC)
Query SDSS Sky Server -- SDSS J130429.69+311625.2	SDSS Sky Server
Query IRSA for WISE images (10' search radius)	NASA/IPAC Infrared Science Archive (IRSA)
Retrieve 2MASS Atlas Images Band(s): <div>Ks</div> Size: <div>2'</div>	NASA/IPAC Infrared Science Archive (IRSA)
Retrieve IRAS ISSA Images Band(s): <div>60um</div> Size: <div>30'</div>	NASA/IPAC Infrared Science Archive (IRSA)
1-D Coadd of IRAS Scans (ADDSCAN/SCANPI)	NASA/IPAC Infrared Science Archive (IRSA)
Retrieve NVSS Image Size: <div>15'</div> <div><input checked="" type="radio"/> Contours (PS) <input type="radio"/> JPEG <input type="radio"/> FITS File</div>	NRAO/VLA Sky Survey (NVSS)
Retrieve FIRST Image Size: <div>15'</div> <div><input checked="" type="radio"/> GIF <input type="radio"/> FITS File</div>	Faint Images of the Radio Sky at Twenty-Centimeters
NRAO Archive 1 arcminute search radius (EVLA, VLA and VLBA)	The NRAO Data Archive System

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Object No. 2 - SDSS J130325.74+311903.2

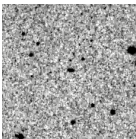
INDEX for SDSS J130325.74+311903.2

Essential Data (jump to sub-section of this query report):

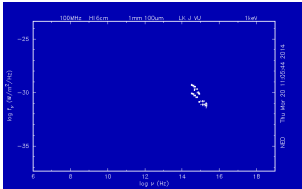
- [Essential Note](#)
- [Cross-IDs](#)
- [Coordinates](#)
- [Basic Data](#)
- [Quantities Derived from Redshift](#)
- [Redshift-Independent Distances](#)
- [Quick-Look Photometry and Luminosities](#)
- NEW

[Quick-Look Angular and Physical Sizes](#)
- [Classifications](#)
- [Foreground Galactic Extinction](#)
- [External Services](#)

Detailed Data (NED queries):



[Images](#)



[21 Photometric data point\(s\) and SED](#)

- [Spectra](#)
- [Redshift-Independent Distances](#)
- [3 Reference\(s\)](#)
- [2 Position data point\(s\)](#)
- [3 Redshift data point\(s\)](#)
- [4 Diameter data point\(s\)](#)

ESSENTIAL NOTE for SDSS J130325.74+311903.2 [\(Back to INDEX\)](#)

N/A

CROSS-IDENTIFICATIONS for SDSS J130325.74+311903.2 [\(Back to INDEX\)](#)

Object Names	Type	Object Names	Type
SDSS J130325.74+311903.2	G	MAPS-NGP O_323_0146130	G

SDSS J130325.74+311903.3	G	NGP9 F323-0146222	G
GALEXASC J130325.70+311903.2	UvS	LEDA 4352835	G
ASK 518159.0	G		

COORDINATES for SDSS J130325.74+311903.2 ([Back to INDEX](#))

Position Reference:[2007SDSS6.C...0000:](#)

Reference	Frame	Longitude (degrees)	Latitude (degrees)	RA	DEC	Uncertainty Semimajor	Ellipse Semiminor	(arcsec) PA(deg)
Equatorial	(B1950.0)	195.262271	31.585714	13h01m02.945s	+31d35m08.57s	5.00E-01	5.00E-01	0
Equatorial	(J2000.0)	195.857279	31.317570	13h03m25.747s	+31d19m03.25s	5.00E-01	5.00E-01	0
Ecliptic	(B1950.0)	179.813675	34.732831			5.00E-01	5.00E-01	0
Ecliptic	(J2000.0)	180.516706	34.732319			5.00E-01	5.00E-01	0
Galactic		91.667411	85.061543			5.00E-01	5.00E-01	0
SuperGalactic		86.501721	9.840834			5.00E-01	5.00E-01	0

Additional detailed measurements with references are also available by clicking below:
[2 Position data point\(s\)](#)

REDSHIFT-INDEPENDENT DISTANCES for SDSS J130325.74+311903.2 ([Back to INDEX](#))

N/A

CLASSIFICATIONS (TYPES, ATTRIBUTES) for SDSS J130325.74+311903.2 ([Back to INDEX](#))

N/A

FOREGROUND GALACTIC EXTINCTION for SDSS J130325.74+311903.2 ([Back to INDEX](#))

NEW Galactic Extinction from the [Schlafly & Finkbeiner 2011, Appendix; 2011ApJ...737..103S \(SF11\)](#) recalibration of the [Schlegel, Finkbeiner & Davis 1998, Appendix B; 1998ApJ...500..525S \(SFD98\)](#) infrared-based dust map. The map is based on dust emission from COBE/DIRBE and IRAS/ISSA; the recalibration assumes a [Fitzpatrick \(1999PASP...111...63F\)](#) reddening law with $R_V = 3.1$ and different source spectrum than SFD98.

	L a n d o l t					S D S S					U K I R T			
Filter	U	B	V	R	I	u	g	r	i	z	J	H	K	L'
[μ m]	(0.35)	(0.43)	(0.54)	(0.64)	(0.80)	(0.36)	(0.47)	(0.62)	(0.75)	(0.89)	(1.25)	(1.66)	(2.19)	(3.78)
A_λ [mag]	0.051	0.043	0.032	0.026	0.018	0.050	0.039	0.027	0.020	0.015	0.008	0.005	0.004	0.002

[Show/Hide \$A_\lambda\$ magnitudes in all 88 photometric bands based on SF11](#)

For completeness, we include the original SFD98 values:

	L a n d o l t					S D S S					U K I R T			
Filter	U	B	V	R	I	u	g	r	i	z	J	H	K	L'
[μ m]	(0.34)	(0.44)	(0.54)	(0.65)	(0.81)	(0.35)	(0.49)	(0.63)	(0.78)	(0.93)	(1.27)	(1.67)	(2.22)	(3.81)
A_λ [mag]	0.063	0.050	0.038	0.031	0.022	0.060	0.044	0.032	0.024	0.017	0.010	0.007	0.004	0.002

Galactic Extinction based on H I Column Densities and Galaxy Counts ([Burstein & Heiles; 1982AJ.....87.1165B](#)) assuming $R_V = 3.1$:
 $A_B = 0.030$ mag

See [Notes on Galactic Extinction](#) for important caveats.

BASIC DATA for SDSS J130325.74+311903.2 ([Back to INDEX](#))

Helio. Radial Velocity : 7745 +/- 30 km/s
Redshift : 0.025836 +/- 0.000099 [2007SDSS6.C...0000:](#)
Major Diameter (arcmin) : 0.37
Minor Diameter (arcmin) : 0.09
Magnitude and Filter : 18.1g
Classifications :

NOTE: This information is indicative only. With the exception of the redshift they are unreferenced and highly inhomogeneous as to their origin. The Radial Velocity (when available) is computed

from the listed redshift. The remaining values are designed to orient the user with a quick-look, overall assessment of the general properties of the object in question. They are not averages nor are they standardized in any way.

Additional detailed measurements with references are also available by clicking below:
[3 Redshift data point\(s\)](#) [21 photometric data point\(s\)](#) [4 Diameter data point\(s\)](#)

QUANTITIES DERIVED FROM REDSHIFT for SDSS J130325.74+311903.2 [\(Details\)](#)[\(Back to INDEX\)](#)

Calculated and Corrected Velocities

V (Heliocentric)	: 7745 +/-	30 km/s	2007SDSS6.C...0000:
V (Kinematic LSR)	: 7755 +/-	30 km/s	1986MNRAS.221.1023K
V (Galactocentric GSR)	: 7772 +/-	30 km/s	1991RC3.9.C...0000d
V (Local Group)	: 7751 +/-	30 km/s	1996AJ...111..794K
V (3K CMB)	: 8000 +/-	35 km/s	1996ApJ...473..576F
V (Virgo Infall only)	: 7966 +/-	33 km/s	2000ApJ...529..786M
V (Virgo + GA only)	: 8249 +/-	39 km/s	2000ApJ...529..786M
V (Virgo + GA + Shapley)	: 8304 +/-	39 km/s	2000ApJ...529..786M

Hubble Flow Distance and Distance Modulus (where $H_0 = 73.0 \pm 5$ km/sec/Mpc)

D (Galactocentric GSR)	: 106.5 +/-	7.5 Mpc	(m-M) = 35.14 +/- 0.15 mag
D (Local Group)	: 106.2 +/-	7.4 Mpc	(m-M) = 35.13 +/- 0.15 mag
D (3K CMB)	: 109.6 +/-	7.7 Mpc	(m-M) = 35.20 +/- 0.15 mag
D (Virgo Infall only)	: 109.1 +/-	7.7 Mpc	(m-M) = 35.19 +/- 0.15 mag
D (Virgo + GA only)	: 113.0 +/-	7.9 Mpc	(m-M) = 35.27 +/- 0.15 mag
D (Virgo + GA + Shapley)	: 113.7 +/-	8.0 Mpc	(m-M) = 35.28 +/- 0.15 mag

Scale at Hubble Flow Distances

Scale (Galactocentric GSR)	: 516 pc/arcsec = 0.516 kpc/arcsec = 30.97 kpc/arcmin = 1.86 Mpc/degree
Scale (Local Group)	: 515 pc/arcsec = 0.515 kpc/arcsec = 30.88 kpc/arcmin = 1.85 Mpc/degree
Scale (3K CMB)	: 531 pc/arcsec = 0.531 kpc/arcsec = 31.88 kpc/arcmin = 1.91 Mpc/degree
Scale (Virgo Infall only)	: 529 pc/arcsec = 0.529 kpc/arcsec = 31.74 kpc/arcmin = 1.90 Mpc/degree
Scale (Virgo + GA only)	: 548 pc/arcsec = 0.548 kpc/arcsec = 32.87 kpc/arcmin = 1.97 Mpc/degree
Scale(Virgo + GA + Shapley)	: 551 pc/arcsec = 0.551 kpc/arcsec = 33.09 kpc/arcmin = 1.99 Mpc/degree

To Search for Nearby Objects (Physical Companions): Enter Your Preferred Values and click on "Submit Environment Search" button

Search for Objects within +/- arcmin where 100 kpc = 3.022 arcmin

and Selected Redshift, defined by the Velocity Range: from to km/sec where

V(Heliocentric) = 7745 km/sec

Cosmology-Corrected Quantities [$H_0 = 73.00$ km/sec/Mpc, $\Omega_{\text{matter}} = 0.27$, $\Omega_{\text{vacuum}} = 0.73$]
[Redshift 0.026686 as corrected to the Reference Frame defined by the 3K Microwave Background Radiation]

Luminosity Distance	: 112 Mpc	(m-M) = 35.24 mag
Angular-Size Distance	: 106 Mpc	(m-M) = 35.13 mag
Co-Moving Radial Distance	: 109 Mpc	(m-M) = 35.19 mag
Co-Moving Tangential Dist.	: 109 Mpc	(m-M) = 35.19 mag
Co-Moving Volume	: 0.00542 Gpc ³	
Light Travel-Time	: 0.351 Gyr	
Age at Redshift 0.026686	: 12.948 Gyr	
Age of Universe	: 13.299 Gyr	
Scale (Cosmology Corrected):	515 pc/arcsec = 0.515 kpc/arcsec = 30.88 kpc/arcmin = 1.85 Mpc/degree	
Surface Brightness Dimming	: Flux Density per Unit Area = 0.90002; Magnitude per Unit Area = 0.1144 mag	

To change Cosmological Input Parameters for Derived Quantities: Enter Your Preferred Values and click on "Submit Changed Hubble Parameters for this object" button

H_0 Ω_{matter} Ω_{vacuum}

Correct Redshift To the Reference Frame defined by: as Input for Calculation

of the Distances and Cosmology-Corrected Quantities

QUICK-LOOK PHOTOMETRY and LUMINOSITIES for SDSS J130325.74+311903.2 [\(Back to INDEX\)](#)

The brightest flux in each of the following spectral regions, when available:
Gamma-Ray ($\nu > 2\text{E}19$ Hz); X-Ray ($2\text{E}19$ Hz $> \nu > 2\text{E}16$ Hz); Ultraviolet ($2\text{E}16$ Hz $> \nu > 9\text{E}14$ Hz); Visual ($9\text{E}14$ Hz $> \nu > 3\text{E}14$ Hz); Near-Infrared ($3\text{E}14$ Hz $> \nu > 6\text{E}13$ Hz); Mid-Infrared ($6\text{E}13$ Hz $> \nu > 7.5\text{E}12$ Hz); Far-Infrared ($7.5\text{E}12$ Hz $> \nu > 1\text{E}12$ Hz); Sub-Millimeter ($1\text{E}12$ Hz $> \nu > 3\text{E}11$ Hz); Millimeter ($3\text{E}11$ Hz $> \nu > 3\text{E}10$ Hz); Radio ($3\text{E}10$ Hz $> \nu$).

Spectral Region	Band	Apparent Mag or Flux	Refcode	Absolute Mag or νL_{ν} [W]	νL_{ν} [L_{\odot} (Bolometric)]
Ultraviolet	NUV (GALEX) AB	20.8949 +/- 0.169724 mag	2012GASC.C...0000S	-14.35 +/- 0.53 [mag]	7.99E+07 +/- 2.03E+07
Visual	z (SDSS Model) AB	17.059 +/- 0.032 asinh mag	2007SDSS6.C...0000:	-18.19 +/- 0.50 [mag]	6.78E+08 +/- 1.37E+08

NOTE: The above quantities are derived using a Distance Modulus of 35.24 mag corresponding to

a Luminosity Distance of 111.9 Mpc [assuming 10%uncertainty] using the [Cosmology-Corrected Quantities](#).
The quantities quoted above have not necessarily been corrected for foreground extinction, and no K-Corrections have been applied.

View details and SED for [21 Photometric data point\(s\)](#) available in NED.

NEW QUICK-LOOK ANGULAR & PHYSICAL DIAMETERS for SDSS J130325.74+311903.2 ([Back to INDEX](#))

The largest diameters in the Visual and Near-Infrared spectral regions, when available:

Passband	Apparent Major Axis (2a) [arcsec]	Apparent Minor Axis (2b) [arcsec]	PA [degrees] (J2000.0)	Reference Level	Refcode	Physical Major Axis (2a) [kpc]	Physical Minor Axis (2b) [kpc]
r (SDSS Isophotal)	24.99	6.25	83	25.0 mag arcsec ⁻²	2007SDSS6.C...0000:	13.78	3.45

NOTE: At z <= 0.5, physical diameters are derived using a [Scale at the Hubble Flow Distance \(Virgo + GA + Shapley\)](#) of 0.551 kpc/arcsec.
The quantities quoted above have not necessarily been corrected for foreground extinction.

View details for [4 Diameter data point\(s\)](#) available in NED.

EXTERNAL ARCHIVES AND SERVICES for SDSS J130325.74+311903.2 [Help](#) ([Back to INDEX](#))

Data Related Directly to Object Names		Site/Service
Query SIMBAD by primary NED object name -- SDSS J130325.74+311903.2		SIMBAD (CDS, Strasbourg, France)
Query SDSS Sky Server -- SDSS J130325.74+311903.2		SDSS Sky Server
Retrieve mean data from LEDA -- PGC 4352835		The Lyon/Meudon Extragalactic Database (LEDA)
Query GALEX (NUV/FUV) Mission Archive (6' search radius) -- SDSS J130325.74+311903.2		GALEX Mission Data Archive at MAST
Explore IRSA resources with RADAR (10" search radius) -- SDSS J130325.74+311903.2		NASA/IPAC Infrared Science Archive (IRSA)
General Archive Resources -- All queries centered at 13h03m25.7s, +31d19m03s (J2000)		Site/Service
Query Optical and UV Mission Archives (Default search radius)		Multimission Archive at STScI (MAST)
Query High Energy Mission Archives (Default search radius)		HEASARC (NASA/GSFC)
Explore resources with DataScope (15' search radius)		HEASARC (NASA/GSFC)
Query SDSS Sky Server -- SDSS J130325.74+311903.2		SDSS Sky Server
Query IRSA for WISE images (10' search radius)		NASA/IPAC Infrared Science Archive (IRSA)
Retrieve 2MASS Atlas Images Band(s): <input type="text" value="Ks"/> Size: <input type="text" value="2'"/>		NASA/IPAC Infrared Science Archive (IRSA)
Retrieve IRAS ISSA Images Band(s): <input type="text" value="60um"/> Size: <input type="text" value="30'"/>		NASA/IPAC Infrared Science Archive (IRSA)
1-D Coadd of IRAS Scans (ADDSCAN/SCANPI)		NASA/IPAC Infrared Science Archive (IRSA)
Retrieve NVSS Image Size: <input type="text" value="15'"/> <input checked="" type="radio"/> Contours (PS) <input type="radio"/> JPEG <input type="radio"/> FITS File		NRAO/VLA Sky Survey (NVSS)
Retrieve FIRST Image Size: <input type="text" value="15'"/> <input checked="" type="radio"/> GIF <input type="radio"/> FITS File		Faint Images of the Radio Sky at Twenty-Centimeters
NRAO Archive 1 arcminute search radius (EVLA, VLA and VLBA)		The NRAO Data Archive System

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