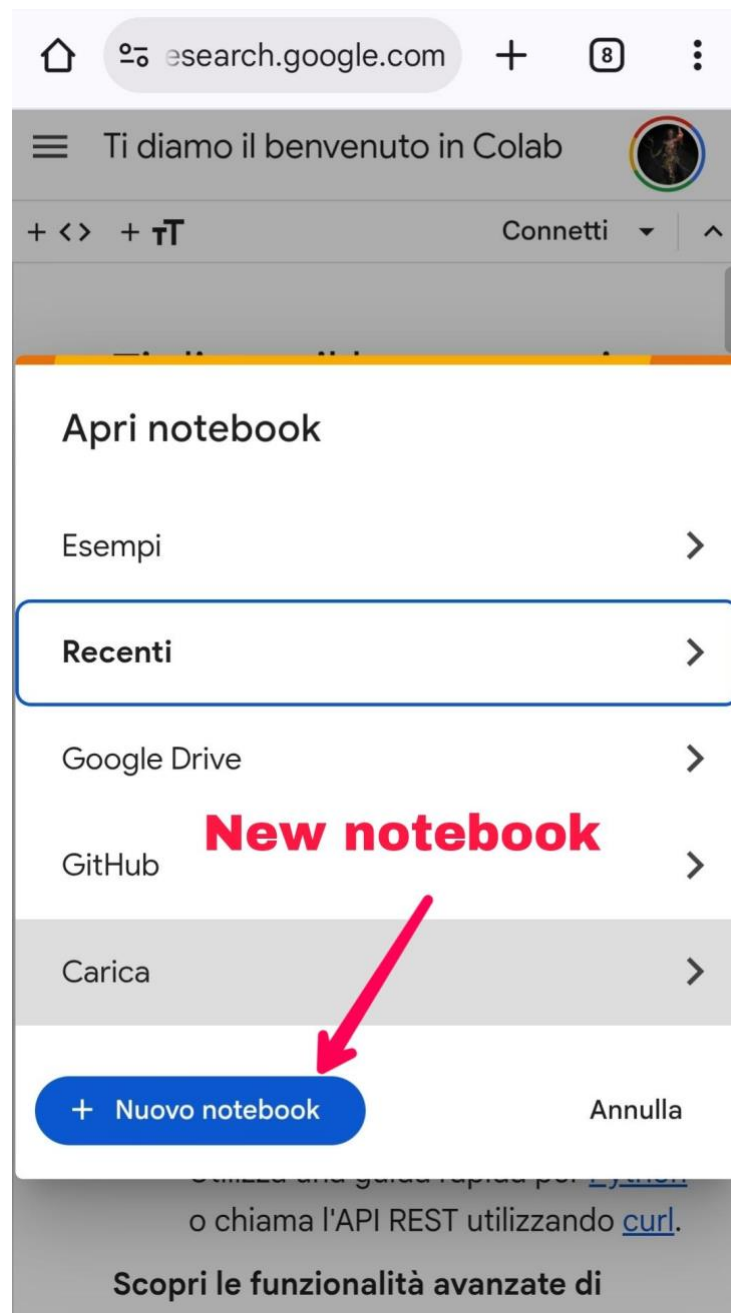


- 1.) OPEN YOUR GOOGLE COLAB AND CREATE NEW NOTEBOOK (ON YOUR PC OR SMARTPHONE) – NO SUBSCRIPTION NEEDED



- 2.) COPY-PASTE CARBONETTE FROM GOOGLE COLAB FOLDER ON GITHUB CARBONETTE REPOSITORY. (Be sure to copy all code since is long)



[]



=== Single-cell CNT quick-look + S

Colab-ready. Incolla i dati in DA

Parser tollerante: ignora i numer

----- PASTE YOUR DA

DATA = """

Replace with your numbers. Tolerant

1
5.21725
1.750791
0.013038
0

1
5.24749
1.797884
0.013055
0

1
5.27773
1.754747
0.012888
0

1



3.) OPEN IRSA CATALOG (ON GOOGLE) TO GET A NEW TARGET OBJECT TO ANALYZE.

The screenshot displays the NASA/IPAC Infrared Science Archive (IRSA) website. At the top, the IPAC logo is on the left, and the text "NASA/IPAC INFRARED SCIENCE ARCHIVE" is centered. Below this, navigation links for "ABOUT", "HOLDINGS", "DATA ACCESS", and "HELP" are provided, along with a "Login" link on the right. The main content area features a "Search for Source" section with a text input field for "Name or Coordinates", a "Search" button, and a "Radius" dropdown set to "30" with "arcsec" as the unit. Below this is a "Search Catalog:" dropdown set to "WISE" with another "Search" button. To the right, a "Euclid Spectra" section shows a table of spectral data and a corresponding plot of flux density versus wavelength. Below the search section, there are icons for "Catalogs", "IRSA Viewer", "Finder Chart", and "VO/API". Further down, a row of telescope icons includes "Spitzer", "WISE", "Euclid", "SPHEREx", "IRTF", "2MASS", "ZTF", and a "MORE" button with a downward arrow. At the bottom, there are buttons for "Contribute Data", "Documentation", "Video Tutorials", and "Help Desk". The footer contains links for "Contact", "Privacy Policy", and "Acknowledge IRSA", a "Search IRSA" input field, and logos for "ipac", "Caltech", "JPL", and "NASA".

4.) CLICK ON SPITZER ICON.



Spitzer Space Telescope



Spitzer Heritage Archive



Catalog Search



Spitzer Documentation

Mission Characteristics

Lifetime:	2003-2020
Wavelength:	3-180 μm
Area Coverage:	Targeted
Instruments:	<ul style="list-style-type: none">Infrared Array Camera (IRAC), covering bands centered at 3.6, 4.5, 5.8 and 8.0 μmInfrared Spectrograph (IRS), a low and moderate resolution spectrograph spanning 5.2 to 38 μmMultiband Imaging Photometer (MIPS), covering bands centered nominally at 24, 70, and 160 μm
Science Products Generated:	<ul style="list-style-type: none">Raw, calibrated and post-calibration data from IRAC, IRS and MIPSSpitzer Legacy, Exploration Science, and contributed data
Funding Agency:	NASA
Canonical Papers:	Spitzer Mission - Werner et al. (2004) Infrared Array Camera (IRAC) - Fazio et al. (2004) Infrared Spectrograph (IRS) - Houck et al. (2004) Multiband Imaging Photometer for Spitzer (MIPS) - Rieke et al. (2004) Details on how to acknowledge Spitzer data and/or funding are provided in the documentation.

IRSA Services & Documentation - Spitzer Space Telescope

Spitzer Heritage Archive	Interface to the Spitzer Heritage Archive, providing access to all publicly available data from the mission.
Spitzer Documentation	Documentation for all aspects of the Spitzer mission.
Data Analysis Tools	Spitzer data analysis tools.
Youtube Tutorials	Tutorial videos for Spitzer data.
Spitzer Catalog Queries	Access Spitzer Enhanced Imaging Products (SEIP) Tables and Legacy Catalogs.
Image Cutouts	Generate cutout FITS (and JPEG) images from Spitzer image collections.
Cloud Access	Access SEIP Super Mosaics available in AWS S3 cloud storage.

Click on Spitzer Enhanced
Products

Major Programs

SEIP: Spitzer Enhanced Imaging Products	Super Mosaics and Source List for the Spitzer cryogenic mission.
Spitzer IRS Enhanced Products (Documentation)	16,986 merged low-resolution IRS spectra.
Frontier Fields	Spitzer imaging of the Frontier Fields.
Spitzer FLS	Spitzer and ancillary data for the First Look Survey.
SAFIRES: Spitzer Archival FIR Extragalactic Survey	Mosaics and Source Lists for MIPS 70 and 160 micron data.

Spitzer Legacy/Exploration Science Programs - Galactic Data Sets

C2D: From Molecular Cores to Planet-Forming Disks	Images, spectra, catalogs, ancillary
CSI2264: The Coordinated Synoptic Investigation of NGC 2264	Light curves, catalogs
A Spitzer Legacy Survey of the Cygnus-X Complex	Images, catalogs
FEPS: The Formation and Evolution of Planetary Systems	Images, spectra, catalog, ancillary
GLIMPSE: Galactic Legacy Infrared Midplane Survey Extraordinaire	Images, catalogs
MIPSGAL: A 24 and 70 Micron Survey of the Inner Galactic Disk with MIPS	Images
SASS: Spitzer Archive of Stellar Spectra	Spectra, catalog
Taurus 2: Finishing the Spitzer Map of the Taurus Molecular Clouds	Images, catalog
YSOVAR: Young Stellar Object Variability	Light curves, catalogs



IRS Enhanced Spectrophotometric Products (IRS_Enh) Overview



IRS_Enh Overview



IRS_Enh Primary Data Access



IRS_Enh Catalogs

Overview

The Enhanced Products consist of two elements: (1) A collection of 16,986 low-resolution, merged spectra, and (2) A Catalog of extracted source positions, synthetic photometry in several bands, PSF profile widths, and other useful quantities. These products were produced starting with the final SSC pipeline (ver. 18.18) bksb.tbl SL and LL spectra. The bksb.tbl spectra were extracted from the nod two minus nod one and nod one minus nod two background-subtracted basic calibrated data, using an aperture that expands linearly with wavelength. The calibrated fluxes are consequently strictly valid only for point sources.

If you use IRS_Enh data, please cite both the [IRS Instrument Handbook](#) and the dataset Digital Object Identifier (DOI): [10.26131/IRSA399](#).

[Jump to documentation.](#)


Data Set Characteristics

Data Product	Description	Data Access
Spectra	Spitzer/IRS	<ul style="list-style-type: none"> Image and Spectrum Server (DCE) Browseable Directories
Catalog	IRS Enhanced Products Catalog	<ul style="list-style-type: none"> Catalog Search Tool Program Interface

IRS_Enh Documentation

General	Catalogs
IRS Instrument Handbook	Catalog Column Descriptions





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[HOLDINGS](#)
[DATA ACCESS](#)
[HELP](#)

Login

General Catalog Query Engine

powered by Gator

[Quick Guide](#)
[Tutorial](#)
[Catalog List](#)
[Process Monitor](#)
[Program Interface](#)

CATALOG SELECTION: Spitzer

Spitzer Enhanced Imaging Products

Select

Select	Descriptions	# Columns	# Rows	Information
<input type="radio"/>	SEIP Source List	198	42089764	i
<input type="radio"/>	SEIP IRAC Coverage Table	26	1507981824	i
<input type="radio"/>	SEIP MIPS Coverage Table	10	335507612	i
<input type="radio"/>	SEIP Traceback Table	16	11940855	i

Spitzer IRS Enhanced Products

Select

Selection	Descriptions	# Columns	# Rows	Information
<input checked="" type="radio"/>	IRS Enhanced Products	85	16986	i

Spitzer Abell 1763

Select

Selection	Descriptions	# Columns	# Rows	Information
<input type="radio"/>	Abell 1763 Source Catalog	94	10876	i
<input type="radio"/>	Abell 1763 MIPS 70 micron Catalog	15	733	i

From Molecular Cores to Planet-Forming Disks (C2D)

Select

Selection	Descriptions	# Columns	# Rows	Information
<input type="radio"/>	C2D Fall '07 Full CLOUDS Catalog (CHA_II, LUP, OPH, PER, SER)	146	4261028	i
<input type="radio"/>	C2D Fall '07 High Reliability (HREL) CLOUDS Catalog (CHA_II, LUP, OPH, PER, SER)	146	614037	i
<input type="radio"/>	C2D Fall '07 candidate Young Stellar Objects (YSO) CLOUDS Catalog (CHA_II, LUP, OPH, PER, SER)	146	1087	i
<input type="radio"/>	C2D Fall '07 Full OFF-CLOUD Catalog (CHA_II, LUP, OPH, PER, SER)	146	704023	i
<input type="radio"/>	C2D Fall '07 High Reliability (HREL) OFF-CLOUD Catalog (CHA_II, LUP, OPH, PER, SER)	146	118562	i
<input type="radio"/>	C2D Fall '07 candidate Young Stellar Objects (YSO) OFF-CLOUD Catalog (CHA_II, LUP, OPH, PER, SER)	146	7	i
<input type="radio"/>	C2D Fall '07 Full CORES Catalog	146	840881	i
<input type="radio"/>	C2D Fall '07 High Reliability (HREL) CORES Catalog	146	173932	i
<input type="radio"/>	C2D Fall '07 candidate Young Stellar Objects (YSO) CORES Catalog	146	317	i
<input type="radio"/>	C2D Fall '07 Full STARS Catalog	146	213449	i
<input type="radio"/>	C2D Fall '07 High Reliability (HREL) STARS Catalog	146	28167	i
<input type="radio"/>	C2D Fall '07 candidate Young Stellar Objects (YSO) STARS Catalog	146	67	i

5.) CATALOG SEARCH TOOL – OPEN AND SELECT SPITZER ENHANCED PRODUCTS FROM LIST.



IRS Enhanced Products

powered by Gator

[Quick Guide](#) [Tutorial](#) [Catalog List](#) [Process Monitor](#) [Program Interface](#)

[Run Query](#) [Reset](#)

☐ [Single Object Search](#) ☐ [Multi-Object Search](#) ☒ [All Sky Search](#)

SPATIAL CONSTRAINTS

☒ [No Spatial Constraints](#)

OPTIONS:

☒ [Table Output](#) [E-mail Address \(optional\):](#)
☐ [Source Counts Only](#)(all-sky search only)


[Run Query](#) [Reset](#)

COLUMN CONSTRAINTS/OUTPUT COLUMN SELECTION

[Select All Columns](#) [Clear All Selections](#) [Reset](#)

Table Selection		Standard		Long Form		Sexagesimal Output		No v
Name	Description	Sel	Low Limit (include >, ≥, =)	Up Limit (include <, ≤, =)	Units	Indx	DBType	
reqkey	Spitzer Request ID	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>			number(10)	
tn	Nth Target in this AOR	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>			number(10)	
object	Object name specified by observer	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>			varchar2(21)	
ra	Primary Extraction RA J2000.	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	deg		float(63)	
dec	Primary Extraction DEC J2000	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	deg		float(63)	
irac8	IRAC 8 um flux	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
irac8u	IRAC 8 um flux unc	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
iras12	IRAS 12 um flux	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
iras12u	IRAS 12 um flux unc	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
irs16	IRS 16 um flux	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
irs16u	IRS 16 um flux unc	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
irs22	IRS 22 um flux	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
irs22u	IRS 22 um flux unc	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
mips24	MIPS 24 um flux	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
mips24u	MIPS 24 um flux unc	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
iras25	IRAS 25 um flux	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
iras25u	IRAS 25 um flux unc	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Jy		float(63)	
mips24 irac8	color ratio: MIPS24 / IRAC8	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>			float(63)	
mips24 irs16	color ratio: MIPS24 / IRS16	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>			float(63)	
irs16 irac8	color ratio: IRS16 / IRAC8	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>			float(63)	
iras25 iras12	color ratio: IRAS25 / IRAS12	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>			float(63)	
ra_sl	Mean extraction RA for SL (orders 1&2)	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	deg		float(63)	
dec_sl	Mean extraction DEC for SL (orders 1&2)	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	deg		float(63)	
pa_sl	Mean FOV_PA for SL (orders 1&2)	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	deg		float(63)	
ra_ll	Mean extraction RA for LL (orders 3&4)	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	deg		float(63)	

6.) SELECT ALL SKY SEARCH AND RUN QUERY. You now have all the objects with name and RA/DEC you can copy-paste.



NASA/IPAC INFRARED SCIENCE ARCHIVE

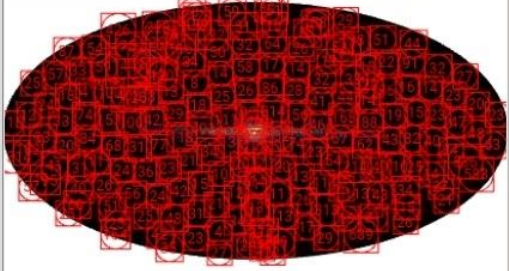
[ABOUT](#) | [HOLDINGS](#) | [DATA ACCESS](#) | [HELP](#)

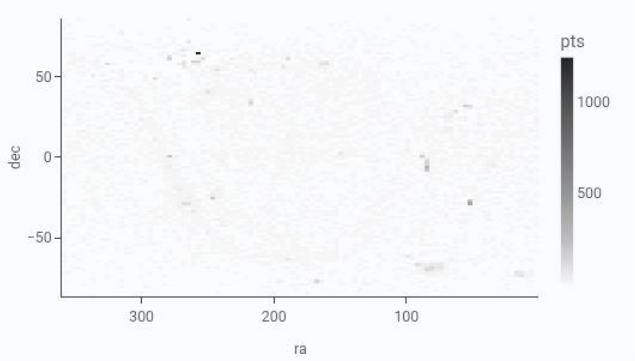
Login

[Return to Query Page](#)
[Catalog List](#)
[Process Monitor](#)
[Program Interface](#)
[Catalog Search Help](#)

Catalog Search Result for IRS Enhanced Products

All Sky Search
Constraints: No
16986 sources found.

HIPS / FITS / MOC
Gal / Aitoff
2MASS color J (1.23um), H (1.66um), K (2.16u... FOV:337°




[Full Result Table](#)
[Column Key](#)

1
70
(1 - 100 of 16,986)

reqkey	tn	object	ra	dec	lras8	lras8u	lras12	lras12u	lras16	lras16u	lras22	lras22u	ml
int	int	char	double	double	double	double	double	double	double	double	double	double	double
18937344	1	CSS 1005	267.88828	-6.40104	1.451	0.01879	1.142	0.02063	0.8393	0.01461	0.5452	0.01032	0.1
18937600	1	CSS 1046	277.1069	17.32867	0.9043	0.01108	0.5207	0.009349	0.2993	0.005446	0.1598	0.003935	0.1
18937856	1	CSS 1077	281.92392	-7.1729	0.9445	0.01154	0.5456	0.009799	0.3006	0.005654	0.1588	0.004348	0.1
18938112	1	TU Dra	282.87561	48.9119	1.863	0.02328	1.506	0.02673	0.9909	0.0168	0.6801	0.01185	0.1
18938368	1	V734 Cyg	291.19461	44.48233	1.336	0.01585	0.8353	0.01466	0.4945	0.00839	0.2719	0.005044	0.1
18938624	1	CSS 1138	291.65579	42.39401	0.9167	0.01123	0.5511	0.00984	0.3182	0.00561	0.18	0.003731	0.1
18938880	1	CSS 1160	297.25619	0.48656	1.746	0.02197	1.318	0.02359	0.8086	0.01407	0.5012	0.00949	0.1
18939136	1	CM Cyg	299.64209	52.09615	1.419	0.01838	0.9188	0.01679	0.6803	0.01185	0.3727	0.007091	0.1
18939392	1	V899 Aql	300.37262	4.4267	1.822	0.02282	1.368	0.02438	0.8977	0.01543	0.551	0.0102	0.1
15918592	1	ISO-Chall-13	194.52777	-77.15259	0.006155	3.405e-4	0.006757	3.433e-4	0.007337	5.067e-4	0.0091	7.094e-4	0.1
15918848	1	IRAS 03292+303	53.07488	30.82966	null	null	null	null	null	null	null	null	nu
15919104	1	KA-130234.5-77	195.64343	-77.3812	0.003366	2.14e-4	null	null	null	null	null	null	nu
15919360	1	L1521F-VeLLO-1	67.16231	26.85977	null	null	null	null	null	null	0.02398	0.001404	0.1
15919616	1	KA-162148.5-23	245.45197	-23.67427	0.01442	0.001247	0.02465	0.00137	0.04391	0.002651	0.08869	0.004351	0.1
15919617	1	KA-162148.5-23	245.45213	-23.67421	0.0136	0.001098	0.02329	0.001257	0.04386	0.002546	0.08802	0.004085	0.1




Catalog
Sky Coverage
Constraints
Workspace
Status

IRS Enhanced Products
All Sky Search


/workspace/TMP_DsQHKb_29725/Gator/irsa/31697

[Current Job](#) [Query History](#)

Send Query To:






7.) OPEN SPITZER DATA COLLECTION TO GET THE DATA. IMAGE AND SPECTRUM SERVER.





NASA/IPAC INFRARED SCIENCE ARCHIVE


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IRS Enhanced Spectrophotometric Products (IRS_Enh) Overview

[IRS_Enh Overview](#)

[IRS_Enh Primary Data Access](#)

[IRS_Enh Catalogs](#)

Overview

The Enhanced Products consist of two elements: (1) A collection of 16,986 low-resolution, merged spectra, and (2) A Catalog of extracted source positions, synthetic photometry in several bands, PSF profile widths, and other useful quantities. These products were produced starting with the final SSC pipeline (ver. 18.18) bksb.tbl SL and LL spectra. The bksb.tbl spectra were extracted from the nod two minus nod one and nod one minus nod two background-subtracted basic calibrated data, using an aperture that expands linearly with wavelength. The calibrated fluxes are consequently strictly valid only for point sources.


If you use IRS_Enh data, please cite both the [IRS Instrument Handbook](#) and the dataset Digital Object Identifier (DOI): [10.26131/IRSA399](#). [Jump to documentation.](#)

Data Set Characteristics

Data Product	Description	Data Access
Spectra	Spitzer/IRS	<ul style="list-style-type: none">Image and Spectrum Server (DCE)Browseable Directories
Catalog	IRS Enhanced Products Catalog	<ul style="list-style-type: none">Catalog Search ToolProgram Interface

IRS_Enh Documentation

General	Catalogs
IRS Instrument Handbook	Catalog Column Descriptions



Choose Data Collection

Facility	Collection	Inst.	Type	Bands
2MASS	LGA	2MASS Survey	extragalactic	Infrared
2MASS	LH	2MASS Survey	extragalactic	Infrared
AKARI	AKARI	FIS	all-sky	Infrared,Millim
BLAST	BLAST	BLAST	compilation	Millimeter
Bolocam	BOLOCAM_GP	Bolocam,SHAR	galactic	Millimeter
Bolocam	BOLOCAM	Bolocam	extragalactic	Millimeter
Bolocam	BOLOCAM_Plar	Bolocam	extragalactic	Millimeter
Contribute	MUSYC	ISPI,Mosaic-II,5	extragalactic	Infrared,Optica
Euclid	ERO	NISP,VIS	compilation	Infrared,Optica
HERON	HERON	FLI09000,STL1	extragalactic	Optical
Herschel	ACMC	PACS,SPIRE	galactic	Infrared,Millim
Herschel	ColdCores	PACS,SPIRE	galactic	Millimeter
Herschel	DIGIT	PACS,SPIRE	galactic	Infrared,Millim
Herschel	DUNES	PACS,SPIRE	galactic	Infrared,Millim
Herschel	HGOODS	PACS,SPIRE	extragalactic	Infrared
Herschel	H-ATLAS	PACS,SPIRE	extragalactic	Millimeter
Herschel	HELGA	PACS,SPIRE	extragalactic	Millimeter
Herschel	HERITAGE	PACS,SPIRE	extragalactic	Millimeter
Herschel	HerM33es	PACS,SPIRE	extragalactic	Infrared,Millim
Herschel	HerMES	PACS,SPIRE	extragalactic	Millimeter
Herschel	HERUS	SPIRE	extragalactic	Millimeter
Herschel	HeVICS	PACS,SPIRE	extragalactic	Millimeter
Herschel	HEXOS	HIFI	galactic	Millimeter
Herschel	HGBS	PACS,SPIRE	galactic	Infrared,Millim
Herschel	HHLI	PACS,SPIRE	compilation	Millimeter
Herschel	HIFISTARS	HIFI	galactic	Millimeter
Herschel	HOP	HIFI	galactic	Millimeter
Herschel	LocalGroup	PACS,SPIRE	extragalactic	Millimeter
Herschel	MAGCLOUDSC	HIFI	extragalactic	Millimeter
Herschel	MESS	PACS,SPIRE	galactic	Infrared, Millim
Herschel	PEP	PACS,SPIRE	extragalactic	Infrared,Millim
Herschel	PHPDP	PACS	compilation	Infrared,Millim
Herschel	PPDISKS	SPIRE	galactic	Millimeter
Herschel	PRISMAS	HIFI	galactic	Millimeter
Herschel	SAG-4	PACS,SPIRE	galactic	Infrared, Millim
Herschel	SHDPDP	SPIRE	compilation	Millimeter
Herschel	zOMGS_Dust	PACS,SPIRE	extragalactic	Infrared,Millim
IRAS	EIGA	IRAS	galactic	Infrared,Millim
IRAS	IGA	IRAS	galactic	Infrared,Millim
IRAS	IRIS	IRAS	all-sky	Infrared,Millim
IRAS	ISSA	IRAS	all-sky	Infrared,Millim
IRAS	IRAS_LRS	IRAS	galactic	Infrared
IRAS	MIGA	IRAS	galactic	Infrared,Millim
IRTF	MEarth	SpeX	galactic	Optical,Infrare
ISO	ISO_SWS	SWS	compilation	Infrared
ISO	ISOGAL	ISOCAM	galactic	Infrared
MSX	MSX	SPIRIT III	compilation	Infrared
Mopra	CHaMP	MOPS	galactic	Millimeter
Mopra	ThrUMMS	MOPS	galactic	Millimeter
P60	P60GRB	GRBCam	compilation	Optical
Perkins	GPIPS	Mimir	galactic	Infrared
Rubin Siml	LSSTDESC202	Rubin Simulate	simulated	Optical
SOFIA	EXES_Enh	EXES	compilation	Infrared
SOFIA	FIREPLACE	HAWC+	galactic	Millimeter
SWAS	SWAS	SWAS	compilation	Millimeter
Spitzer	5MUSES	IRS	extragalactic	Infrared
Spitzer	Abell1763	IRAC,LFC,MIPS	extragalactic	Infrared,Millim
Spitzer	CLASH	IRAC	extragalactic	Infrared
Spitzer	Cosmic Dawn	IRAC	extragalactic	Infrared
Spitzer	Cygnus-X	IRAC,MIPS	galactic	Infrared
Spitzer	DeepDrill	IRAC	extragalactic	Infrared
Spitzer	Disks_SH_spec	IRS	galactic	Infrared
Spitzer	DUSTINGS	IRAC	extragalactic	Infrared
Spitzer	ELFLock	MIPS	extragalactic	Millimeter
Spitzer	FIDEL	MIPS	extragalactic	Infrared,Millim
Spitzer	Frontier	IRAC	extragalactic	Infrared
Spitzer	GLIMPSE	IRAC	galactic	Infrared
Spitzer	SGOODS	IRAC	extragalactic	Infrared,Optica
Spitzer	IRS_Std	IRS	galactic	Infrared
Spitzer	IRS_Enh	IRS	compilation	Infrared
Spitzer	IUDF	IRAC	extragalactic	Infrared
Spitzer	LVL	GALEX,IRAC,M	extragalactic	Infrared,Millim
Spitzer	M31IRAC	IRAC	extragalactic	Infrared
Spitzer	M83M33	IRS	extragalactic	Infrared
Spitzer	MIPS_LG	MIPS	extragalactic	Millimeter
Spitzer	MIPSGAL	MIPS	galactic	Infrared
Spitzer	SAG	IRAC	extragalactic	Infrared
Spitzer	SS	IRS	extragalactic	Infrared

IRS Enhanced Data Products (IRS_Enh) Spectra Search

Click to choose a search center, or use the Selection Tools () to choose a search center and radius

HiPS / MOC

Gal / Aitoff

AllWISE color Red (W4) , Green (W2) , Blue (W1)

FOV:338°

Paste object name or RA/DEC

Coordinates or Object Name

Try NED then Simbad

Examples: 238.956638 58.91651 eq 90.05411438 36.80685622 ga
317.05435488 83.24001354 ecl 29 Vul

Search Radius

360 arcseconds

Valid range between: 1" and 22500"

Search

Documentation: IRS Enhanced Spectra Overview Page

Click on data collection to search; filter or sort table to find a data collection.

IRSA Viewer

IRSA

ABOUT | HOLDINGS | DATA ACCESS | HELP

Login

Results

Data Collections

Catalogs

Upload

Job Monitor

Data Product: IRS_Enh Spectra - 2

Table

Spectrum

(1 - 39 of 39)

Spitzer IRS Enhanced Products

1 of 4

0 of 366

order	wavelength	flux_density	error	bit-flag
int	(microns)	(Jy)	(Jy)	int
1	5.21725	2.05389	0.014064	0
1	5.24749	2.17871	0.014346	0
1	5.27773	2.14718	0.014262	0
1	5.30797	2.095484	0.01344	0
1	5.33821	2.099939	0.012914	0
1	5.36846	2.077965	0.012756	0
1	5.3987	2.046284	0.012655	0
1	5.42894	2.012883	0.01229	0
1	5.45918	2.009874	0.011793	0
1	5.48942	1.987894	0.011377	0
1	5.51967	1.978043	0.011305	0
1	5.54991	1.968767	0.01141	0
1	5.58015	1.970982	0.011619	0
1	5.61039	1.96317	0.011696	0
1	5.64063	1.937865	0.011534	0
1	5.67088	1.952128	0.011376	0
1	5.70112	1.954796	0.011321	0
1	5.73136	1.946606	0.011336	0
1	5.7616	1.95766	0.011441	0
1	5.79184	1.953529	0.011433	0
1	5.82209	1.963147	0.01141	0
1	5.85233	1.932999	0.0116	0
1	5.88257	1.918155	0.011573	0
1	5.91281	1.921739	0.011039	0
1	5.94305	1.908008	0.010993	0
1	5.9733	1.875152	0.010877	0
1	6.00354	1.877158	0.010874	0
1	6.03378	1.859323	0.010742	0
1	6.06402	1.82801	0.01057	0
1	6.09426	1.818181	0.010524	0
1	6.12451	1.820824	0.010536	0
1	6.15475	1.810222	0.010575	0
1	6.18499	1.788541	0.010516	0
1	6.21523	1.774263	0.010529	0
1	6.24547	1.77791	0.010618	0
1	6.27572	1.761072	0.01082	0
1	6.30596	1.744905	0.011143	0
1	6.3362	1.740739	0.011567	0
1	6.36644	1.708031	0.011731	0
1	6.39668	1.695114	0.011753	0
1	6.42693	1.691404	0.01169	0
1	6.45717	1.684247	0.01158	0
1	6.48741	1.692676	0.011751	0
1	6.51765	1.691569	0.01193	0
1	6.54789	1.716095	0.012452	0
1	6.57814	1.686535	0.012626	0
1	6.60838	1.650445	0.01249	0
1	6.63862	1.65489	0.012237	0
1	6.66886	1.665055	0.011986	0
1	6.6991	1.676837	0.0119	0
1	6.72935	1.672278	0.011935	0
1	6.75959	1.665334	0.012217	0
1	6.78983	1.645549	0.012563	0
1	6.82007	1.624439	0.012754	0
1	6.85031	1.622807	0.012934	0
1	6.88056	1.621125	0.01306	0
1	6.9108	1.621416	0.013276	0
1	6.94104	1.599411	0.013585	0
1	6.97128	1.592243	0.013862	0
1	7.00152	1.581983	0.014086	0

Name

char

s_ra

169.8496

s_dec

-47.96463

facility_name

Spitzer Space Telescope

dataid_instrument

IRS

dataprodut_subtype

science

calib_level

3

dataset_type

spectrum

dataid_bandpass

Infrared

curation_publisherid

ivo://irsa.ipac.spitzer_irsenh/18934784

min_wavelength

5.21725e-6

max_wavelength

3.786356e-5

spec_rp

120

spec_val

2.1540404999999998e-5

spec_bw

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energy_transition_species

energy_transition_transition

energy_restwav

dataid_title

Spitzer IRS Enhanced Products

access_url

https://irsa.ipac.caltech.edu/data/SPITZER/Enhance

access_format

text/plain

access_size

texposure

dataid_collection

spitzer_irsenh

dataid_date

2012-01-12 00:00:00

proposal_id

dataset_datamodel

IRS Enhanced Products Pipeline

curation_reference

https://irsa.ipac.caltech.edu/data/SPITZER/docs/irs

target_name

CSS 739

s_fov

tstart

54177.07337962964

tstop

tmid

texposure_eff

coord_obs

[169.8496,-47.96463]

curation_publisher

NASA/IPAC-IRSA

curation_date

2020-11-09 12:32:27.334035-08

dataid_creator

dataset_length

upload_row_id

1

Copy all numbers in order from all pages and paste them between the "" in Collab

1 spectroscopy

IRS_Enh Spectra - 2 x

Prepare Download

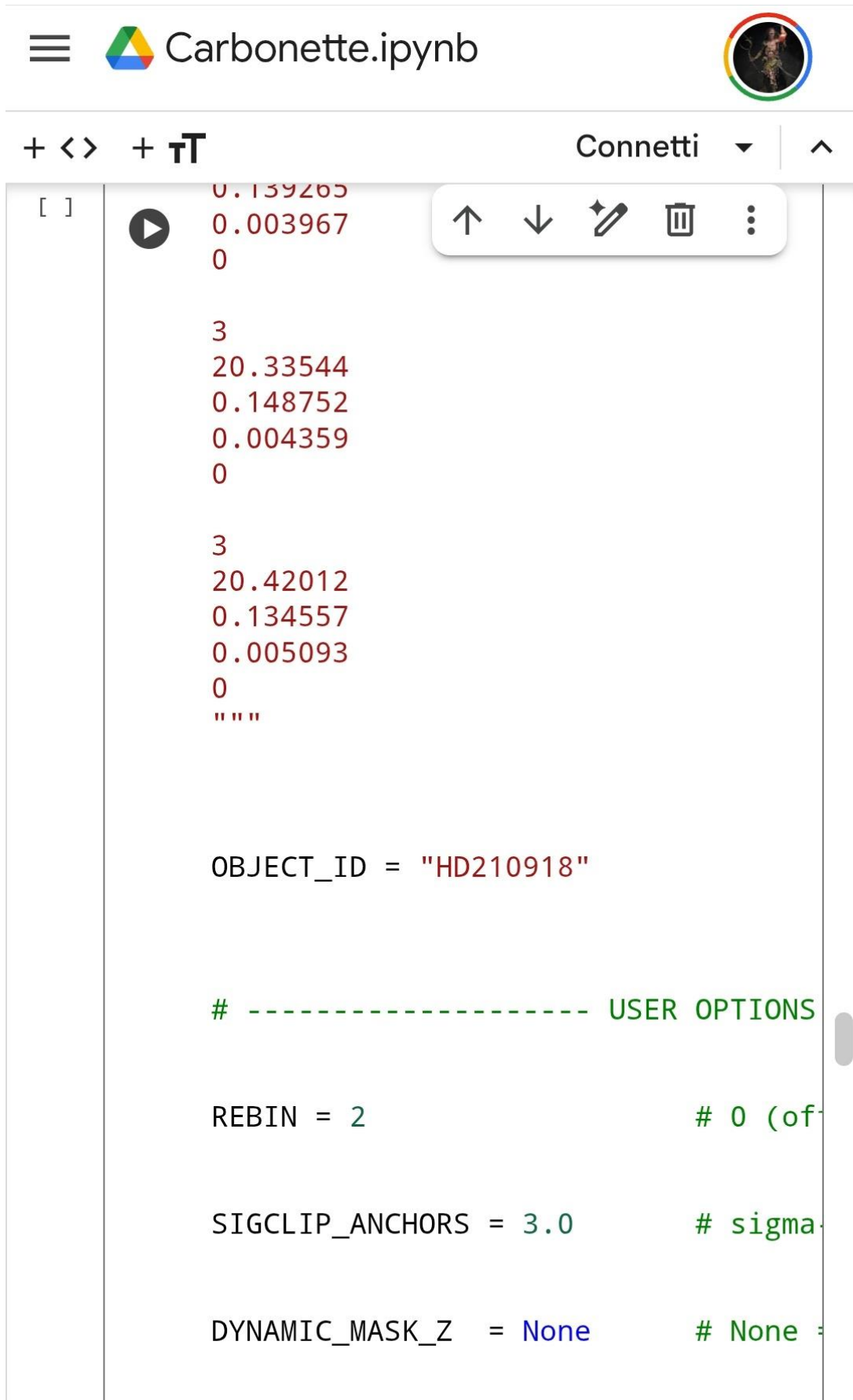
Data Help

1 of 1

1 of 1

s_ra	s_dec	facility_name	dataid_instrument	dataprodut_subtype	calib_level	dataset_type	dataid_bandpass	curation_publisher
(deg)	(deg)	char	char	char	short	char	char	char
169.8496	-47.96463	Spitzer Space Telescope	IRS	science	3	spectrum	Infrared	ivo://irsa.ipac.caltech.edu/data/SPITZER/Enhance

8.) Paste them into CARBONETTE by substituting default data and object name. PRESS PLAY!



The image shows a Jupyter Notebook interface titled "Carbonette.ipynb". The top bar includes a menu icon, the Google Colab logo, the notebook title, and a user profile picture. Below the title bar, there are navigation icons (plus, left arrow, right arrow, and a T icon) and a dropdown menu labeled "Connetti". The main area displays a code cell with a play button icon on the left. The code is as follows:

```
[ ]  
  
0.139265  
0.003967  
0  
  
3  
20.33544  
0.148752  
0.004359  
0  
  
3  
20.42012  
0.134557  
0.005093  
0  
""  
  
OBJECT_ID = "HD210918"  
  
# ----- USER OPTIONS  
  
REBIN = 2 # 0 (of  
  
SIGCLIP_ANCHORS = 3.0 # sigma  
  
DYNAMIC_MASK_Z = None # None =
```


9.) ENJOY THE REPORT!

↑ ↓ ✎ 🗑 ⋮

⇒

0

BD_11p50_11p70

Broad-deficit ~11.6 μm

11.50-11.70

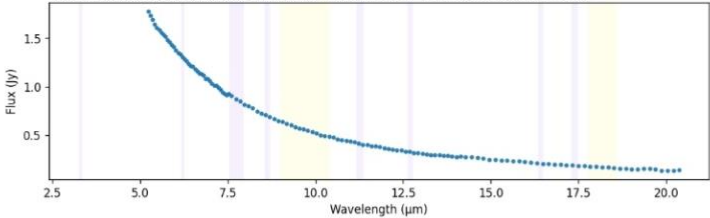
1

BD_16p60_17p60

Broad-deficit ~17 μm

16.60-17.60

Overview: PAH (violet) and silicate (yellow) masks exclude contaminated regions to ensure local continuum fit. Overview: PAH (violet) + Silicate (yellow) masks



[OK] CSV saved → HD210918_broad

[OK] LaTeX saved → HD210918_bro

[OK] PDF saved → HD210918_broad

===== CNT/HNT – OVERV

CNT_5p20_5p70 [5.20-5.70] – base

SAFE: NO | LSF width/LSF=27.

InRec: depth≈0.005, best rec=C

Stability: n/a (extra checks r

⇒ Final result: MARGINAL/REVI

CNT 10p60 10p90 r10 60-10 901 –

