

Accessing J-PAS data: The CEFCA Catalogues Portal

Tamara Civera Lorenzo
Scientific Database Engineer (CEFCA)

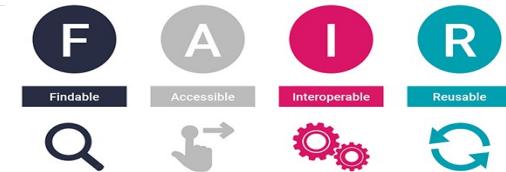
J-PAS Tools School 2023

Data Publication: Archive Content

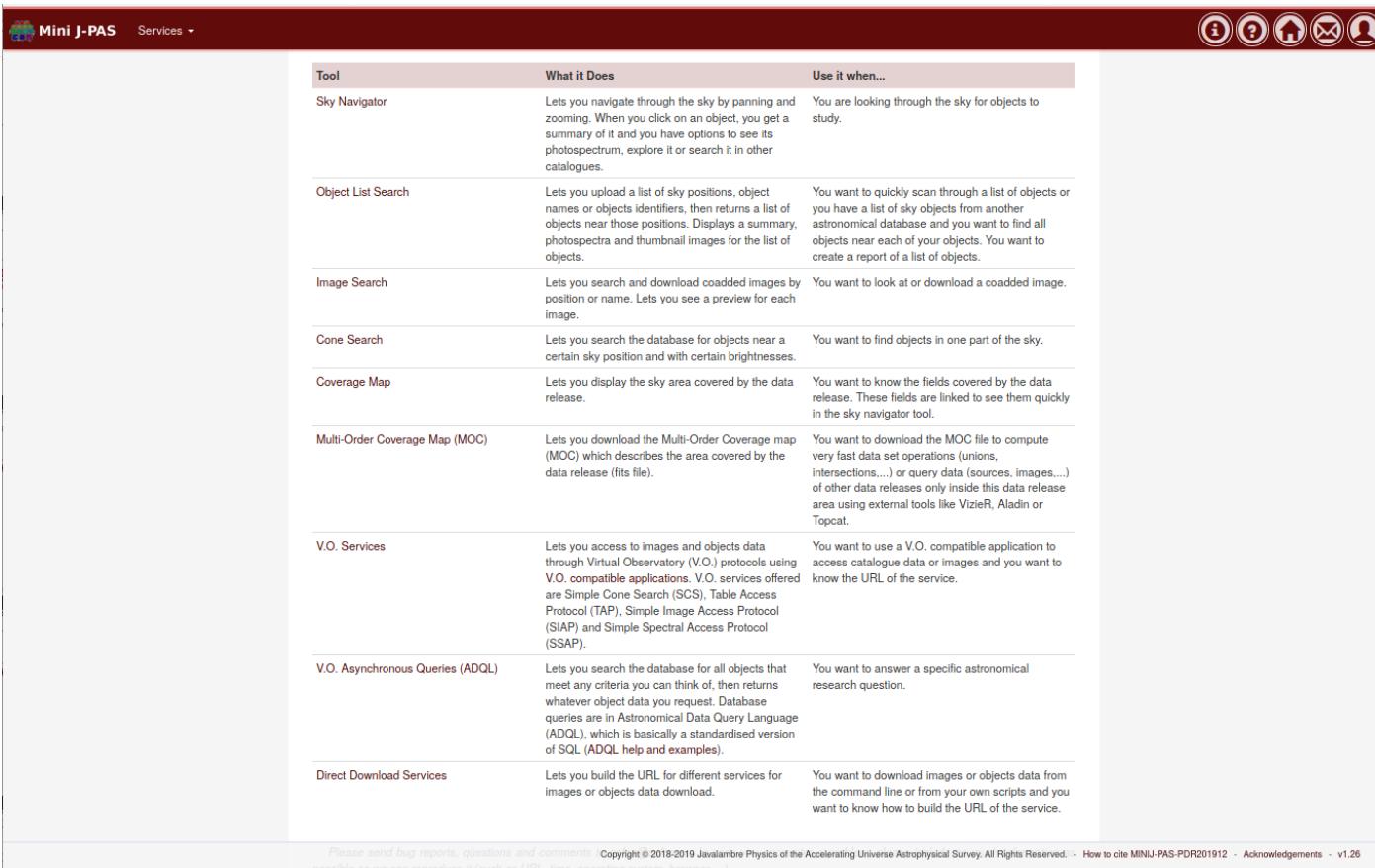
- **Reduced Individual Images**
- **Coadded Images**
- **Catalogues data**
 - Parameters measured from coadded images + Computed photo-redshifts + Added value catalogues
 - **Single-mode catalogue data**
 - **Dual-mode catalogue data**

The CEFCA Catalogues Portal

- **Web portal:** <https://archive.cefca.es>
- **Web user interface services:**
 - Sky navigator, image search, object list search, object visualization, asynchronous queries, cone search, coverage map, custom statistical maps, direct download services
- **VO services:** TAP, SIAP, SCS, HiPS, Obscore, MOC
 - CEFCA Publishing Registry



The CEFCA Catalogues Portal

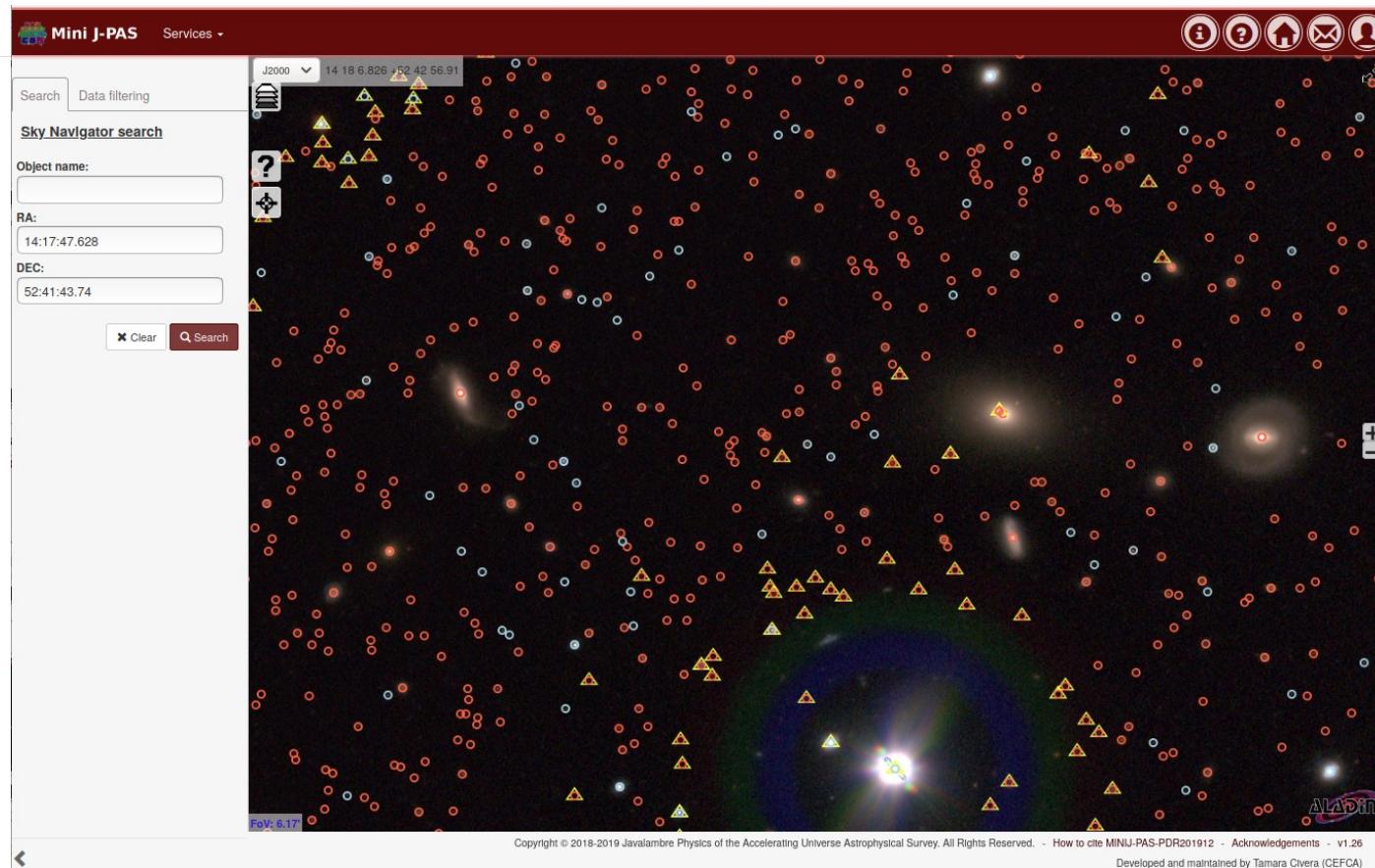


The screenshot shows the Mini J-PAS Catalogues Portal interface. At the top left is the logo "Mini J-PAS" and a "Services" dropdown menu. At the top right are several circular icons representing different services or tools. The main content is a table with the following columns:

| Tool | What it Does | Use it when... |
|----------------------------------|--|--|
| Sky Navigator | Lets you navigate through the sky by panning and zooming. When you click on an object, you get a summary of it and you have options to see its photospectrum, explore it or search it in other catalogues. | You are looking through the sky for objects to study. |
| Object List Search | Lets you upload a list of sky positions, object names or objects identifiers, then returns a list of objects near those positions. Displays a summary, photospectra and thumbnail images for the list of objects. | You want to quickly scan through a list of objects or you have a list of sky objects from another astronomical database and you want to find all objects near each of your objects. You want to create a report of a list of objects. |
| Image Search | Lets you search and download coadded images by position or name. Lets you see a preview for each image. | You want to look at or download a coadded image. |
| Cone Search | Lets you search the database for objects near a certain sky position and with certain brightnesses. | You want to find objects in one part of the sky. |
| Coverage Map | Lets you display the sky area covered by the data release. | You want to know the fields covered by the data release. These fields are linked to see them quickly in the sky navigator tool. |
| Multi-Order Coverage Map (MOC) | Lets you download the Multi-Order Coverage map (MOC) which describes the area covered by the data release (fits file). | You want to download the MOC file to compute very fast data set operations (unions, intersections,...) or query data (sources, images,...) of other data releases only inside this data release area using external tools like VizieR, Aladin or Topcat. |
| V.O. Services | Lets you access to images and objects data through Virtual Observatory (V.O.) protocols using V.O. compatible applications. V.O. services offered are Simple Cone Search (SCS), Table Access Protocol (TAP), Simple Image Access Protocol (SIAP) and Simple Spectral Access Protocol (SSAP). | You want to use a V.O. compatible application to access catalogue data or images and you want to know the URL of the service. |
| V.O. Asynchronous Queries (ADQL) | Lets you search the database for all objects that meet any criteria you can think of, then returns whatever object data you request. Database queries are in Astronomical Data Query Language (ADQL), which is basically a standardised version of SQL (ADQL help and examples). | You want to answer a specific astronomical research question. |
| Direct Download Services | Lets you build the URL for different services for images or objects data download. | You want to download images or objects data from the command line or from your own scripts and you want to know how to build the URL of the service. |

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possible so we can reproduce it (such as URL, time, operating system, browser, ...). Developed and maintained by Tamara Civera (CEFCA)

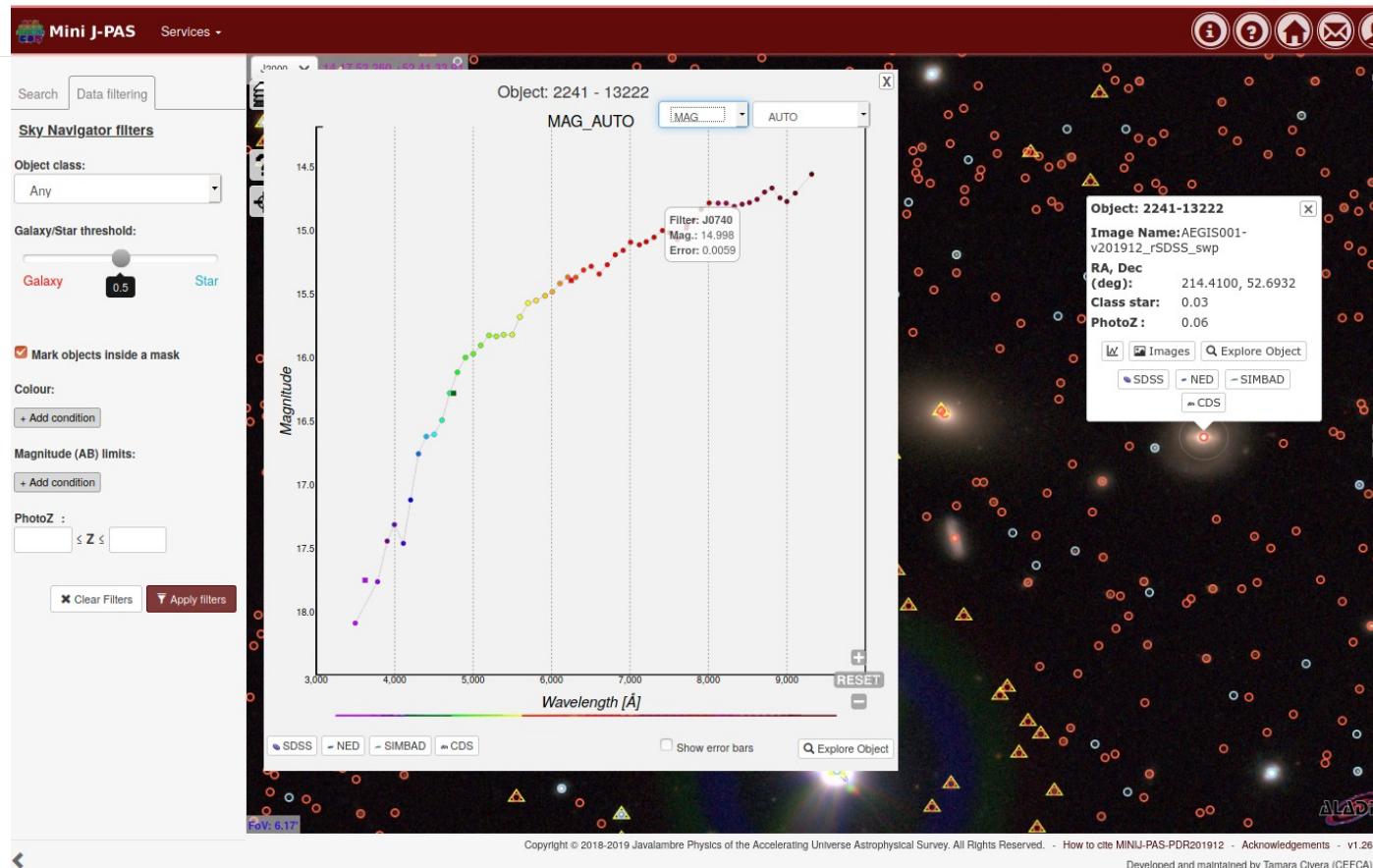
Sky Navigator



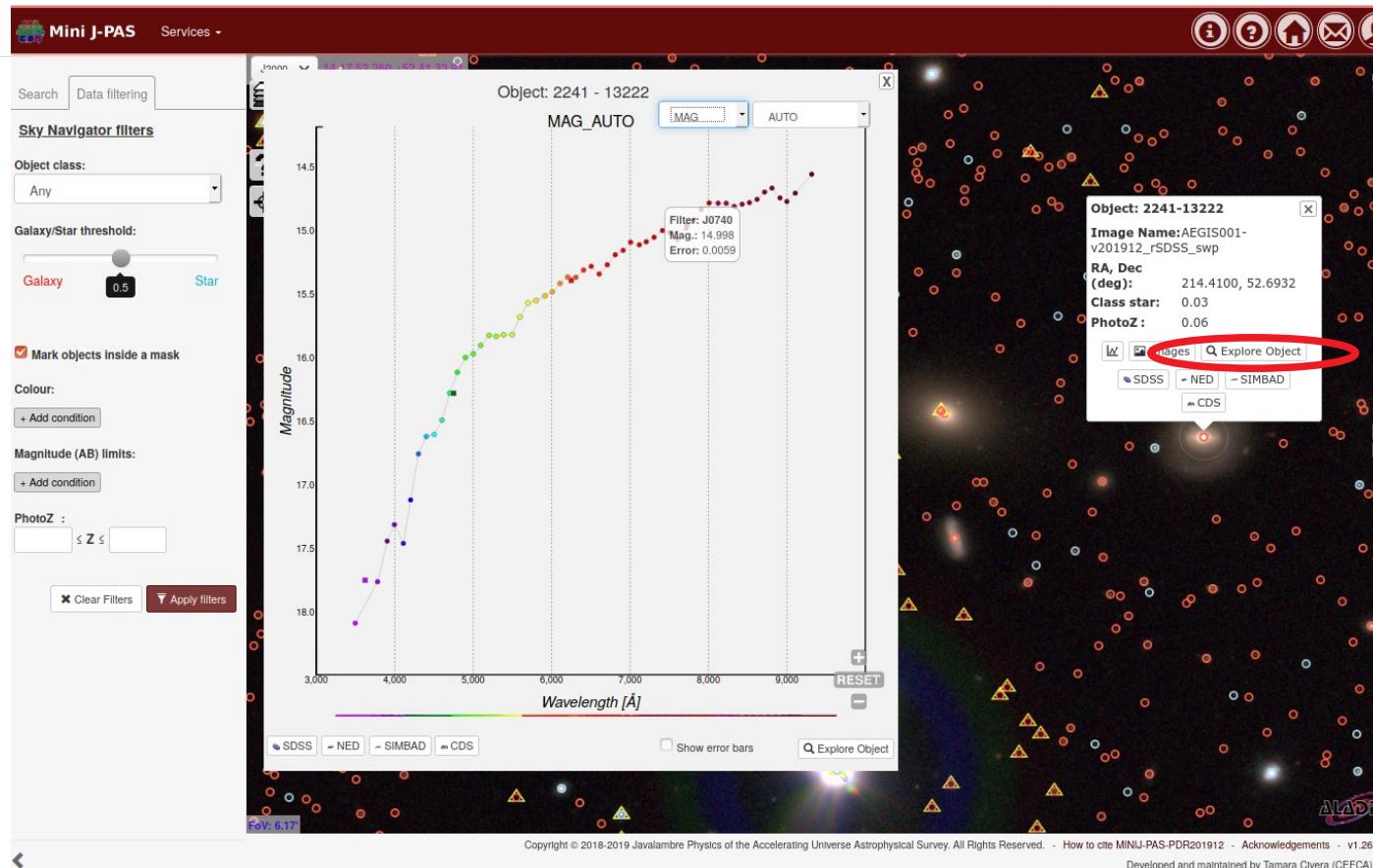
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Sky Navigator



Sky Navigator



Object visualization

Mini J-PAS Services ▾

Object visualization options

RGB Image options:

Show Auto ellipse
 Show Petro ellipse

Image survey:

MINIJPAS-PDR201912

Filters to show:

| Filter | Phm <input checked="" type="checkbox"/> | Imgs <input checked="" type="checkbox"/> |
|--------|---|--|
| uJAVA | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| uJPAS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0378 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0390 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0400 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0410 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0420 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Photospectra

MAG_AUTO MAG_PETRO MAG_ISO MAG_PSFCOR

Note: Photospectrum graph can be displayed in a dialog box where it can be zoomed and panned, double clicking on the desired one.

Apertures:

4 of 7 selected

Measure:

Magnitude AB

Show Error Bars

Photometry:

Magnitude AB

Object ID (Image ID-Object Number) 2241-13222

| | | | |
|---------------------------------|---------------|---------------|-------|
| RA (h:m:s) | 14:17:38.4 | PhotoZ | 0.060 |
| RA (deg) | 214.4100 | PhotoZ Min. | 0.060 |
| Dec (d:m:s) | 52:41:35.7 | PhotoZ Max. | 0.060 |
| Dec (deg) | 52.6932 | Odds | 1.00 |
| Class Star (1: star; 0: galaxy) | 0.03 (GALAXY) | FWHM (arcsec) | 1.86 |

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Object visualization

Mini J-PAS Services ▾

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 Show Petro ellipse

Image survey:
MINIJPAS-PDR201912

Filters to show:

| Filter | Phm | Imgs |
|--------|-------------------------------------|-------------------------------------|
| uJAVA | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| uJPAS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0378 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0390 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0400 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0410 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0420 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Photospectra

Photometry

| Filter | Flags | Flags mask | Norm wmap | Mag auto | | Mag iso | | Mag petro | | Mag psfcor | |
|--------|-------------------------------------|----------------------------|-----------|----------|-------|---------|-------|-----------|-------|------------|--------|
| | | | | Value | Error | Value | Error | Value | Error | Value | Error |
| uJAVA | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.9705 | 0.05 | 18.08 | 0.03 | 18.00 | 0.09 | 18.80 | 0.02 |
| uJPAS | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.8981 | 0.04 | 17.75 | 0.02 | 17.76 | 0.07 | 18.53 | 0.02 |
| J0378 | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.9043 | 0.06 | 17.76 | 0.03 | 17.75 | 0.12 | 18.44 | 0.03 |
| J0390 | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.9119 | 0.02 | 17.44 | 0.01 | 17.46 | 0.04 | 18.16 | 0.01 |
| J0400 | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.8876 | 0.03 | 17.31 | 0.01 | 17.33 | 0.05 | 18.10 | 0.01 |
| J0410 | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.9644 | 0.05 | 17.46 | 0.03 | 17.45 | 0.12 | 18.16 | 0.03 |
| J0420 | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.9723 | 0.03 | 17.12 | 0.02 | 17.13 | 0.06 | 17.82 | 0.02 |
| J0430 | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.9867 | 0.01 | 16.75 | 0.01 | 16.77 | 0.03 | 17.41 | 0.01 |
| J0440 | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.9382 | 0.01 | 16.62 | 0.01 | 16.64 | 0.05 | 17.32 | 0.01 |
| J0450 | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.9468 | 0.03 | 16.60 | 0.02 | 16.61 | 0.06 | 17.24 | 0.02 |
| J0460 | <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 0 | 0.9181 | 0.01 | 16.49 | 0.01 | 16.50 | 0.02 | 17.13 | 0.0049 |

PhotoZ

Morphology

Object Images

Cross Identification

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Object visualization

Mini J-PAS Services ▾

Object visualization options

RGB Image options:

Show Auto ellipse
 Show Petro ellipse

Image survey:
MINIJPAS-PDR201912

Filters to show:

| Filter | Phm | Img |
|--------|-------------------------------------|-------------------------------------|
| uJAVA | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| uJPAS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0378 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0390 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0400 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0410 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0420 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Photospectra:

Apertures:
4 of 7 selected

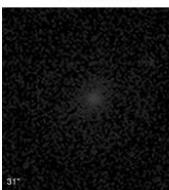
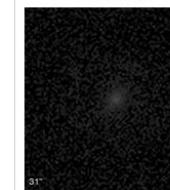
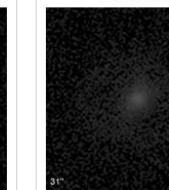
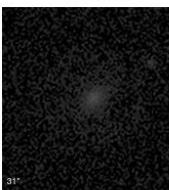
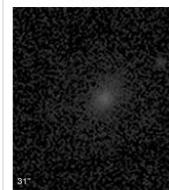
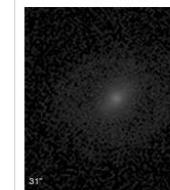
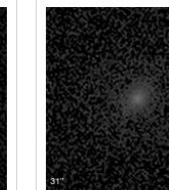
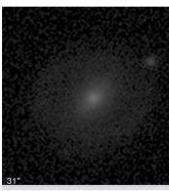
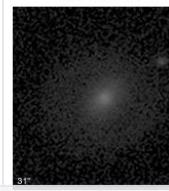
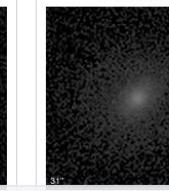
Measure:
Magnitude AB

Show Error Bars

Photometry:
Magnitude AB

Object Images

Load png cutouts Download png cutouts Download fits cutouts Download weight cutouts FoV: Apply

| Filter | Img |
|--------|--|
| uJAVA |  |
| uJPAS |  |
| J0378 |  |
| J0390 |  |
| J0400 |  |
| J0410 |  |
| J0420 |  |
| J0430 |  |
| J0440 |  |
| J0450 |  |
| J0460 |  |
| J0470 |  |
| gSDSS |  |
| J0480 |  |
| J0490 |  |

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Object visualization

Mini J-PAS Services ▾

Object visualization options

RGB Image options:

Show Auto ellipse
 Show Petro ellipse

Image survey:

MINIJPAS-PDR201912

Filters to show:

| Filter | Phm <input checked="" type="checkbox"/> | Imgs <input checked="" type="checkbox"/> |
|--------|---|--|
| uJAVA | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| ujPAS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0378 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0390 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0400 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0410 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0420 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Photospectra:

Apertures:

4 of 7 selected

Measure:

Magnitude AB

Show Error Bars

Photometry:

Magnitude AB

Cross Identification

SIMBAD VIZIER J-PLUS-DR2 J-PLUS-DR1 J-PLUS-EDR

Catalog: DEEP2_DR1_PHOTO Download results Radius: Reload search

No data found for this object in 'Alhambra' catalog.

No data found for this object in 'CFRS' catalog.

| Catalogue | ObjNo | RAJ2000 | DEJ2000 | Bmag | e_Bmag | Rmag | e_Rmag |
|-----------------|----------|------------|------------|--------|--------|--------|--------|
| DEEP2_DR1_PHOTO | 12025652 | 214.410202 | +52.693302 | 17.703 | 0.000 | 16.226 | 0.000 |

No data found for this object in 'DEEP2_DR4_SPEC' catalog.

No data found for this object in 'FIRST' catalog.

| Catalogue | RA_ICRS | e_RA_ICRS | DE_ICRS | e_DE_ICRS | Source | Plx | e_Plx |
|-----------|-----------------|-----------|-----------------|-----------|---------------------|-----|-------|
| GAIA-DR2 | 214.40997176087 | 2.1476 | +52.69324483537 | 1.9745 | 1608014972276795008 | | |

No data found for this object in 'GALEX-DR5_AIS' catalog.

| Catalogue | RAJ2000 | DEJ2000 | objID | f_objID | Qual | e_RAJ2000 | e_DEJ2000 |
|---------------|---------------|---------------|-------------------|-----------|------|-----------|-----------|
| PanSTARRS_DR1 | 214.409971080 | +52.693244730 | 17123144099872573 | 528801792 | 63 | 0.0043 | 0.0032 |

No data found for this object in 'ROSAT' catalog.

| Catalogue | RA_ICRS | DE_ICRS | mode | q_mode | class | SDSS12 | m_SDSS12 |
|-----------|------------|------------|------|--------|-------|---------------------|----------|
| SDSS_12 | 214.409964 | +52.693232 | 1 | + | 3 | J141738.39+524135.6 | * |

| Catalogue | USNO-B1.0 | RAJ2000 | DEJ2000 | e_RAJ2000 | e_DEJ2000 | Epoch | pmRA |
|-----------|--------------|------------|------------|-----------|-----------|--------|------|
| USNO-B1_0 | 1426-0293327 | 214.409295 | +52.693364 | 999 | 419 | 1983.9 | -258 |
| USNO-B1_0 | 1426-0293329 | 214.409850 | +52.693287 | 26 | 110 | 1980.0 | -8 |

| Catalogue | AllWISE | RAJ2000 | DEJ2000 | lm | W1mag | e_W1mag | W2mag |
|-----------|---------------------|-------------|-------------|----|--------|---------|--------|
| WISE | J141738.60+524136.9 | 214.4108701 | +52.6936016 | lm | 13.694 | 0.058 | 13.649 |

| Catalogue | RAJ2000 | DEJ2000 | 2MASS | Jmag | e_Jmag | Hmag | e_Hmag |
|-----------|------------|------------|-----------------|--------|--------|--------|--------|
| 2MASS | 214.409890 | +52.693241 | 1417387+5241356 | 14.732 | 0.074 | 14.117 | 0.086 |

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Object visualization

Mini J-PAS Services ▾

Object visualization options

RGB Image options:

Show Auto ellipse
 Show Petro ellipse

Image survey:

MINIJPAS-PDR201912

Filters to show:

| Filter | Phm | Imgs |
|--------|-------------------------------------|-------------------------------------|
| uJAVA | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| uJPAS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0378 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0390 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0400 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0410 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0420 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Photospectra

MAG_AUTO MAG_PETRO MAG_ISO MAG_PSFCOR

Note: Photospectrum graph can be displayed in a dialog box where it can be zoomed and panned, double clicking on the desired one.

Apertures: 4 of 7 selected

Measure: Magnitude AB

Show Error Bars

Photometry: Magnitude AB

Object ID (Image ID-Object Number) 2241-13222

| RA (h:m:s) | 14:17:38.4 | PhotoZ | 0.060 |
|---------------------------------|---------------|---------------|-------|
| RA (deg) | 214.4100 | PhotoZ Min. | 0.060 |
| Dec (d:m:s) | 52:41:35.7 | PhotoZ Max. | 0.060 |
| Dec (deg) | 52.6932 | Odds | 1.00 |
| Class Star (1: star; 0: galaxy) | 0.03 (GALAXY) | FWHM (arcsec) | 1.86 |

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Object visualization options

Show Auto ellipse
 Show Petro ellipse

RGB Image options:

Image survey: MINJPAS-PDR201912

Filters to show:

| Filter | Phm | Imgs |
|--------|-----|------|
| uJAVA | ✓ | ✓ |
| uJPAS | ✓ | ✓ |
| J0378 | ✓ | ✓ |
| J0390 | ✓ | ✓ |
| J0400 | ✓ | ✓ |
| J0410 | ✓ | ✓ |
| J0420 | ✓ | ✓ |

Photospectra:

Apertures: 4 of 7 selected

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Object ID (Image ID-Object Number) 2241-13222

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|---------------------------------|---------------|---------------|-------|
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CSV Search NED Search Simbad Search CDS Search Archive Catalogues ▾

FITS

VOTABLE

PDF

PhotoZ

Morphology

Object Images

Cross Identification

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MINIJPAS-PDR201912

RA (h:m:s) 14:17:38.4 PhotoZ 0.060
RA (deg) 214.4100 PhotoZ Min. 0.060
Dec (d:m:s) 52:41:35.7 PhotoZ Max. 0.060
Dec (deg) 52.6932 Odds 1.00
Class Star (1: star; 0: galaxy) 0.03 (GALAXY) FWHM (arcsec) 1.86

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Search SDSS Search NED Search Simbad Search TPC Search Archive Catalogues

Filters to show:

| Filter | Phm <input checked="" type="checkbox"/> | Imgs <input checked="" type="checkbox"/> |
|--------|---|--|
| uJAVA | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| uJPAS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0378 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0390 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0400 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| J0410 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
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Photometry

PhotoZ

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Image Search

Mini J-PAS Services ▾

By position By name or id

Image Search Options

Object name:

RA: Example: 120.99 or 12:80:11

DEC: Example: 120.99 or 12:80:11

Box side: 10 arcmin.

Filter: All selected

Maximum # of images: 300

Images found: 60

Select all Select none Script for selected images Global masks Hide image preview About fields

| | Actions | Image ID | Name | Filter | RA | DEC |
|--------------------------|---------|----------|----------------------------|--------|----------|--------|
| <input type="checkbox"/> | | 2234 | AEGIS001-v201912_J0378_swp | J0378 | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2235 | AEGIS001-v201912_J0400_swp | J0400 | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2236 | AEGIS001-v201912_J0420_swp | J0420 | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2237 | AEGIS001-v201912_J0390_swp | J0390 | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2239 | AEGIS001-v201912_gSDSS_swp | gSDSS | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2241 | AEGIS001-v201912_rSDSS_swp | rSDSS | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2242 | AEGIS001-v201912_iSDSS_swp | iSDSS | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2244 | AEGIS001-v201912_uJPAS_swp | uJPAS | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2245 | AEGIS001-v201912_J0500_swp | J0500 | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2246 | AEGIS001-v201912_J0470_swp | J0470 | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2247 | AEGIS001-v201912_J0490_swp | J0490 | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2248 | AEGIS001-v201912_J0460_swp | J0460 | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2249 | AEGIS001-v201912_J0450_swp | J0450 | 214.2825 | 52.514 |
| <input type="checkbox"/> | | 2250 | AEGIS001-v201912_J0480_swp | J0480 | 214.2825 | 52.514 |

Showing 1 to 60 of 60 images Show All entries Previous Next

Image 2241: Preview of 30' x 30' at the center of the composed RGB Image.

Image 2241: Preview of 32' x 32' at the center of the image in the selected filter.

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Image Search

Mini J-PAS Services ▾

By position By name or id

Image Search Options

Object name:

RA: Example: 120.99 or 12:80:11

DEC: Example: 120.99 or 12:80:11

Box side: 10 arcmin.

Filter: All selected

Maximum # of images: 300

Images found: 60

Select all Selection none Script for selected images Global masks Show image preview About fields

Actions

WGET tool: FITS Images
WGET tool: Weight Images
WGET tool: Images masks
WGET tool: Images PhotoZ Lephare
WGET tool: Images PSF file
WGET tool: Raw Images info
WGET tool: Reduction process info

CURL tool: FITS Images
CURL tool: Weight Images
CURL tool: Images masks
CURL tool: Images PhotoZ Lephare
CURL tool: Images PSF file
CURL tool: Raw Images info
CURL tool: Reduction process info

Name Filter RA DEC FWHM Depth (2FWHM5s) Depth (3Arcs)

Generate script for downloading files of the selected images

| | Name | Filter | RA | DEC | FWHM | Depth (2FWHM5s) | Depth (3Arcs) |
|--------------------------|----------------------------|--------|----------|----------|---------|-----------------|---------------|
| <input type="checkbox"/> | 1912_J0430_swp | | J0430 | 214.2825 | 52.5143 | 1.03 | 24.3 |
| <input type="checkbox"/> | AEGIS001-1912_uJAVA_swp | uJAVA | 214.2825 | 52.5143 | 1.28 | 23.8 | 23.7 |
| <input type="checkbox"/> | AEGIS001-1912_J0410_swp | | J0410 | 214.2825 | 52.5143 | 1.49 | 23.0 |
| <input type="checkbox"/> | AEGIS001-1912_J0378_swp | | J0378 | 214.2825 | 52.5143 | 1.17 | 23.3 |
| <input type="checkbox"/> | AEGIS001-1912_J0400_swp | | J0400 | 214.2825 | 52.5143 | 1.61 | 23.7 |
| <input type="checkbox"/> | AEGIS001-1912_J0420_swp | | J0420 | 214.2825 | 52.5143 | 1.53 | 23.1 |
| <input type="checkbox"/> | AEGIS001-1912_J0390_swp | | J0390 | 214.2825 | 52.5143 | 1.10 | 24.6 |
| <input type="checkbox"/> | AEGIS001-v201912_gSDSS_swp | gSDSS | 214.2825 | 52.5143 | 0.74 | 24.8 | 24.0 |
| <input type="checkbox"/> | AEGIS001-v201912_rSDSS_swp | rSDSS | 214.2825 | 52.5143 | 0.70 | 24.8 | 24.0 |
| <input type="checkbox"/> | AEGIS001-v201912_iSDSS_swp | iSDSS | 214.2825 | 52.5143 | 0.69 | 23.9 | 23.0 |
| <input type="checkbox"/> | AEGIS001-v201912_uJPAS_swp | uJPAS | 214.2825 | 52.5143 | 1.44 | 23.0 | 23.0 |
| <input type="checkbox"/> | AEGIS001-v201912_J0500_swp | | J0500 | 214.2825 | 52.5143 | 0.86 | 24.0 |
| <input type="checkbox"/> | AEGIS001-v201912_J0470_swp | | J0470 | 214.2825 | 52.5143 | 1.35 | 23.7 |
| <input type="checkbox"/> | AEGIS001-v201912_J0490_swp | | J0490 | 214.2825 | 52.5143 | 1.50 | 23.1 |

Showing 1 to 50 of 60 Images Show 50 entries Previous 1 2 Next

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Cone Search

Mini J-PAS Services ▾

Cone Search Options

Object name:

RA:

DEC:

Radius: 25 arcsec.

Colour:

Magnitude (AB) limits:

PhotoZ : \leq

Objects found: 4 (0.006sec.).

Select all Select none Show selected in list

| | Image ID | Object Number | Δ (arcsec) | RA | DEC | Flux Auto (rSDSS) | σ(Flux Auto) (rSDSS) | Class Star (1: star) | A World (arcsec) | B World (arcsec) | Theta World (deg) | PhotoZ |
|--------------------------|----------|---------------|------------|----------|---------|-------------------|----------------------|----------------------|------------------|------------------|-------------------|--------|
| <input type="checkbox"/> | Q 2241 | 13222 | 0.1820 | 214.4100 | 52.6932 | 25350 | 85 | 0.03 | 2.25 | 2.10 | 6 | 0.06 |
| <input type="checkbox"/> | Q 2241 | 13169 | 16.0520 | 214.4172 | 52.6923 | 345 | 3 | 0.91 | 0.27 | 0.26 | 67 | 0.12 |
| <input type="checkbox"/> | Q 2241 | 13079 | 22.0700 | 214.4169 | 52.6977 | 8 | 3 | 0.52 | 0.30 | 0.26 | -28 | |
| <input type="checkbox"/> | Q 2241 | 13137 | 24.1760 | 214.4210 | 52.6925 | 5 | 3 | 0.04 | 0.24 | 0.22 | -50 | |

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Cone Search

Mini J-PAS Services ▾

Cone Search Options

Object name:

RA:

DEC:

Radius: 25 arcsec.

Colour:

Magnitude (AB) limits:

PhotoZ : \leq

Objects found: 4 (0.006sec.).

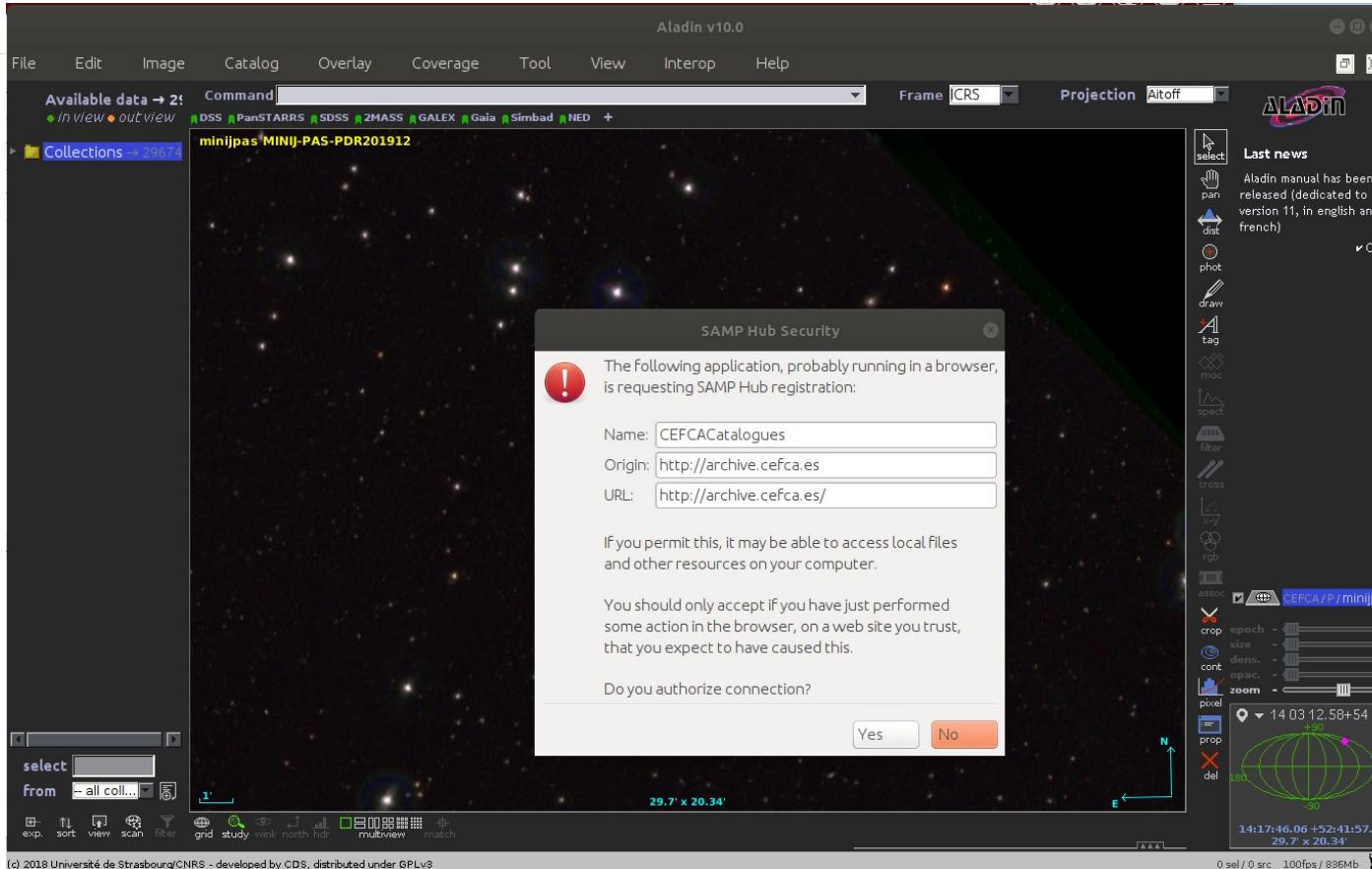
Select all Select none Show selected in list Show magnitude table



| | Image ID | Object Number | Δ (arcsec) | RA | DEC | Flux Auto (rSDSS) | σ(Flux Auto) (rSDSS) | Class Star (1: star) | A World (arcsec) | B World (arcsec) | Theta World (deg) | PhotoZ |
|--------------------------|----------|---------------|------------|----------|---------|-------------------|----------------------|----------------------|------------------|------------------|-------------------|--------|
| <input type="checkbox"/> | Q 2241 | 13222 | 0.1820 | 214.4100 | 52.6932 | 25350 | 85 | 0.03 | 2.25 | 2.10 | 6 | 0.06 |
| <input type="checkbox"/> | Q 2241 | 13169 | 16.0520 | 214.4172 | 52.6923 | 345 | 3 | 0.91 | 0.27 | 0.26 | 67 | 0.12 |
| <input type="checkbox"/> | Q 2241 | 13079 | 22.0700 | 214.4169 | 52.6977 | 8 | 3 | 0.52 | 0.30 | 0.26 | -28 | |
| <input type="checkbox"/> | Q 2241 | 13137 | 24.1760 | 214.4210 | 52.6925 | 5 | 3 | 0.04 | 0.24 | 0.22 | -50 | |

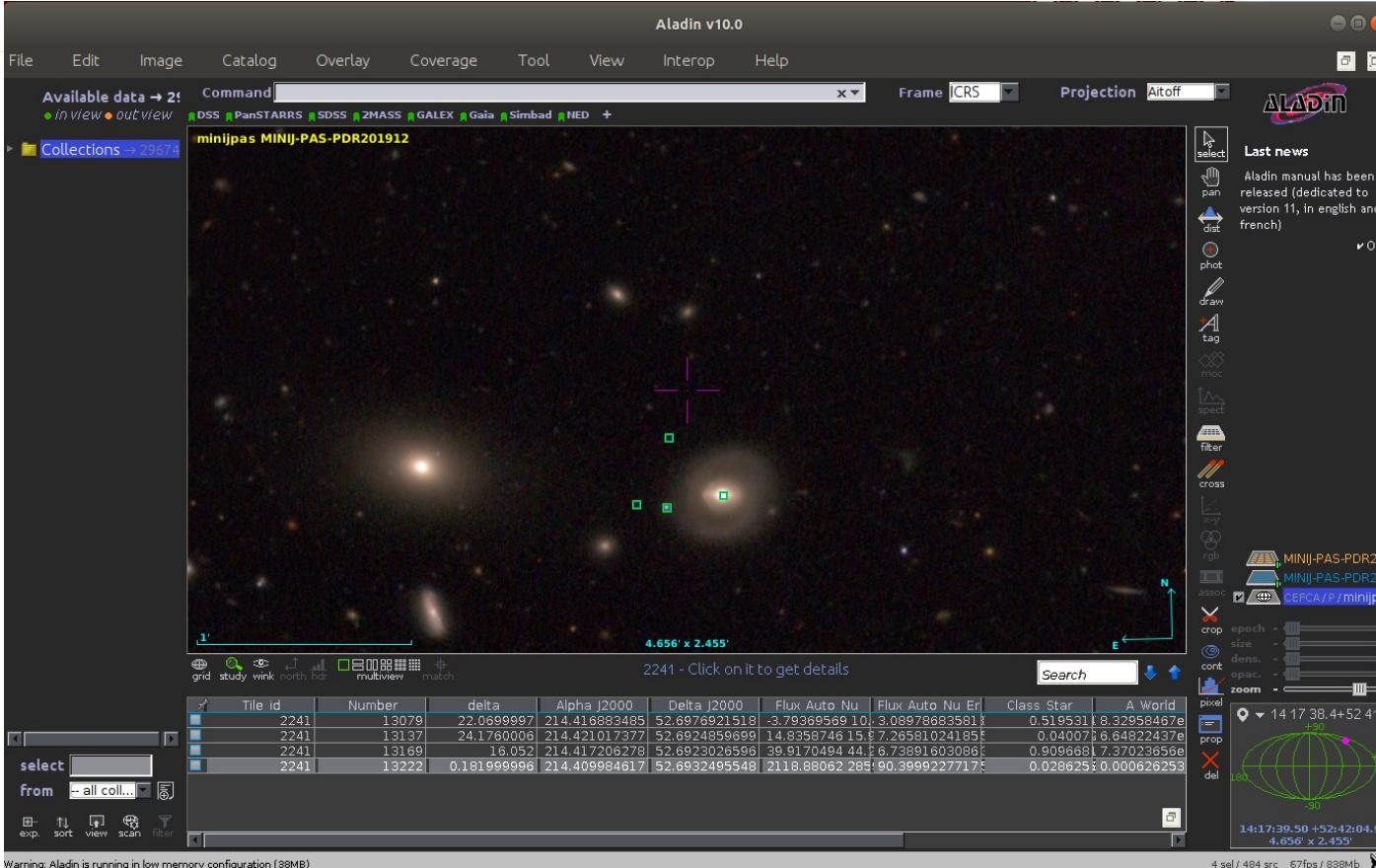
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Interconnecting with VO Applications



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Interconnecting with VO Applications



Object List Search

Mini J-PAS Services ▾

Search Data Image Spectra Select all Select none Delete selected [Scripts FITS download](#) [Download results](#) [Export search](#) [Import search](#) [Transfer data](#)

Object list search

Objects data Objects Images Objects Photospectra [About fields](#)

Num. objects: 11

| | Title_Id - Number | RA | DEC | Mag_Iso-rSDSS | Mag_Iso_Error-rSDSS | Lephare_PhotoZ | Image | Photospectrum |
|--------------------------|--------------------------------|-------------|-------------|---------------|---------------------|----------------|-------|---------------|
| <input type="checkbox"/> | Q_2241 - 8572 | 14:17:43.21 | 52:20:22.76 | 17.20 | 0.0029 | 0.100 | | |
| <input type="checkbox"/> | Q_2243 - 7263 | 14:20:25.41 | 52:42:50.91 | 17.78 | 0.01 | 0.168 | | |
| <input type="checkbox"/> | Q_2241 - 10121 | 14:17:53.39 | 52:23:08 | 19.42 | 0.01 | 0.822 | | |
| <input type="checkbox"/> | Q_2241 - 6818 | 14:16:38.89 | 52:26:37.23 | 18.04 | 0.0031 | 0.808 | | |
| <input type="checkbox"/> | Q_2243 - 2652 | 14:19:18.44 | 52:34:43.41 | 19.62 | 0.01 | 0.258 | | |
| <input type="checkbox"/> | Q_2406 - 5103 | 14:21:50.96 | 52:58:38.86 | 14.74 | 0.00056 | 0.746 | | |

[Clear](#) [Search](#)

Note: Every time you click on the search button, only the first 20 objects will be searched. If you want to submit more in a single search, you can use Import search tool and import them from a text file.

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Object List Search

Mini J-PAS Services ▾

Search Data **Image** Spectra

Select all Select none Delete selected [Scripts FITS download](#) [Download results](#) [Export search](#) [Import search](#) [Transfer data](#)

Objects Images options

Show Auto ellipse
 Show Petro ellipse
 Show Reticle

Image survey: MINJPAS-PDR201912

General FoV:

Set default image view

Objects data Objects Images Objects Photospectra [About fields](#)

| Tile_id - Number: | 2241 - 8572 | 2243 - 7263 | 2241 - 10121 | 2241 - 6818 | 2243 - 2652 | 2406 - 5103 | 2406 - 3511 |
|----------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| FoV: 9.16° | FoV: 25.45° | FoV: 4.94° | FoV: 4.94° | FoV: 15.53° | FoV: 4.94° | FoV: 4.94° | FoV: 4.94° |

| Tile_id - Number: | 2406 - 3586 | 2470 - 14395 | 2470 - 14033 | 2241 - 5700 |
|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| FoV: 4.94° | FoV: 19.5° | FoV: 20.49° | FoV: 4.94° | FoV: 4.94° |

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Object List Search

Mini J-PAS Services -

Search Data Image Spectra

Select all Select none Delete selected Scripts FITS download Download results Export search Import search Transfer data

Objects photospectra options Objects data Objects Images Objects Photospectra About fields

Aperture: AUTO Measure: Magnitude AB

Objects photospectra options

Tile_Id - Number: 2241 - 8572 Tile_Id - Number: 2243 - 7263 Tile_Id - Number: 2241 - 10121 Tile_Id - Number: 2241 - 6818 Tile_Id - Number: 2243 - 2652 Tile_Id - Number: 2406 - 5103 Tile_Id - Number: 2406 - 3511

Tile_Id - Number: 2406 - 3586 Tile_Id - Number: 2470 - 14395 Tile_Id - Number: 2470 - 14033 Tile_Id - Number: 2241 - 5700

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CEFA

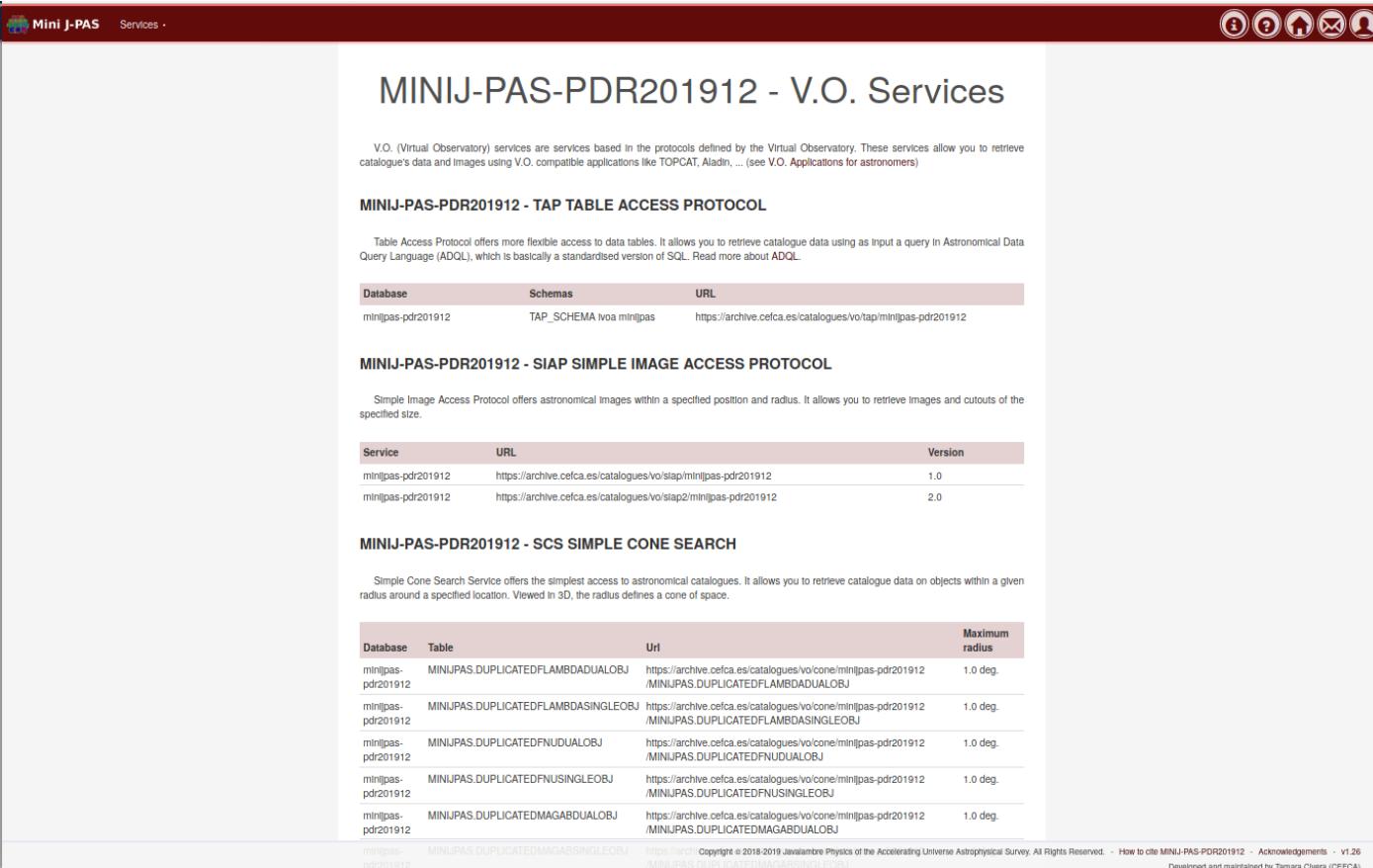
Virtual Observatory (V.O.) Services

- Services based in protocols **defined by Virtual Observatory (V.O.)**
- **Retrieve data and images using:**
 - V.O. compliant applications like TOPCAT, Aladin, ...
 - User's scripts: using PyVO, stilts, ...

Virtual Observatory (V.O.) Services

- **VO services offered:**
 - SIAP (Simple Image Access Protocol)
 - Search for all images covering a sky region and retrieve the full fits images, cutouts or colour images.
 - SCS (Simple Cone Search)
 - Search all the objects within a given radius around a specified location.
 - TAP (Table Access Protocol)
 - More complex searches (using ADQL) on the tables storing information.
 - HiPS (Hierarchical Progressive Access Protocol)
 - Progressive access, visualize and browse colour images and catalogues data.

Virtual Observatory (V.O.) Services



The screenshot shows the MINI-J-PAS V.O. Services page. At the top, there's a navigation bar with the Mini J-PAS logo, a "Services" dropdown, and several icons for information, search, home, and user profile. The main title is "MINIJ-PAS-PDR201912 - V.O. Services". Below it, a brief description explains that V.O. services are based on protocols defined by the Virtual Observatory, allowing retrieval of catalogues and images using compatible applications like TOPCAT, Aladin, etc. A section titled "MINIJ-PAS-PDR201912 - TAP TABLE ACCESS PROTOCOL" provides details about the Table Access Protocol, mentioning ADQL as a standardised version of SQL. It includes a table showing the database, schemas, and URLs for the service. Another section, "MINIJ-PAS-PDR201912 - SIAP SIMPLE IMAGE ACCESS PROTOCOL", describes the Simple Image Access Protocol for retrieving astronomical images. A third section, "MINIJ-PAS-PDR201912 - SCS SIMPLE CONE SEARCH", details the Simple Cone Search Service for finding objects within a cone of space. Each section includes a table with database, table, URL, and maximum radius information.

MINIJ-PAS-PDR201912 - V.O. Services

V.O. (Virtual Observatory) services are services based in the protocols defined by the Virtual Observatory. These services allow you to retrieve catalogue's data and images using V.O. compatible applications like TOPCAT, Aladin, ... (see V.O. Applications for astronomers)

MINIJ-PAS-PDR201912 - TAP TABLE ACCESS PROTOCOL

Table Access Protocol offers more flexible access to data tables. It allows you to retrieve catalogue data using as input a query in Astronomical Data Query Language (ADQL), which is basically a standardised version of SQL. Read more about ADQL

| Database | Schemas | URL |
|--------------------|--------------------------|---|
| minijpas-pdr201912 | TAP_SCHEMA tvoa minijpas | https://archive.cefca.es/catalogues/vo/tap/minijpas-pdr201912 |

MINIJ-PAS-PDR201912 - SIAP SIMPLE IMAGE ACCESS PROTOCOL

Simple Image Access Protocol offers astronomical images within a specified position and radius. It allows you to retrieve images and cutouts of the specified size.

| Service | URL | Version |
|--------------------|---|---------|
| minijpas-pdr201912 | https://archive.cefca.es/catalogues/vo/siap/minijpas-pdr201912 | 1.0 |
| minijpas-pdr201912 | https://archive.cefca.es/catalogues/vo/slap2/minijpas-pdr201912 | 2.0 |

MINIJ-PAS-PDR201912 - SCS SIMPLE CONE SEARCH

Simple Cone Search Service offers the simplest access to astronomical catalogues. It allows you to retrieve catalogue data on objects within a given radius around a specified location. Viewed in 3D, the radius defines a cone of space.

| Database | Table | Url | Maximum radius |
|--------------------|------------------------------------|---|----------------|
| minijpas-pdr201912 | MINJPAS.DUPLICATEDFLAMBDADUALOBJ | https://archive.cefca.es/catalogues/vo/cone/minijpas-pdr201912 /MINJPAS.DUPLICATEDFLAMBDADUALOBJ | 1.0 deg. |
| minijpas-pdr201912 | MINJPAS.DUPLICATEDFLAMBDASINGLEOBJ | https://archive.cefca.es/catalogues/vo/cone/minijpas-pdr201912 /MINJPAS.DUPLICATEDFLAMBDASINGLEOBJ | 1.0 deg. |
| minijpas-pdr201912 | MINJPAS.DUPLICATEDFNIDUALOBJ | https://archive.cefca.es/catalogues/vo/cone/minijpas-pdr201912 /MINJPAS.DUPLICATEDFNIDUALOBJ | 1.0 deg. |
| minijpas-pdr201912 | MINJPAS.DUPLICATEDFNISINGLEOBJ | https://archive.cefca.es/catalogues/vo/cone/minijpas-pdr201912 /MINJPAS.DUPLICATEDFNISINGLEOBJ | 1.0 deg. |
| minijpas-pdr201912 | MINJPAS.DUPLICATEDMAGBDUALOBJ | https://archive.cefca.es/catalogues/vo/cone/minijpas-pdr201912 /MINJPAS.DUPLICATEDMAGBDUALOBJ | 1.0 deg. |

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Virtual Observatory (V.O.) Services

The image shows two astronomical software interfaces demonstrating Virtual Observatory (V.O.) services.

Aladin v10.0 (Left): A map-based interface for astronomical data visualization. It displays a star field in the background. On the left, there's a tree view of available data collections. A red circle highlights the query input field where the SQL command `select J-PAS` is typed. The interface includes a toolbar at the top and various selection and zoom tools on the right.

TOPCAT (Right): A table manipulation application. It has a menu bar (File, Views, Graphics, Joins, Windows, VO, Interop, Help) and a toolbar with various icons. A red circle highlights the "Keywords:" input field in the TAP Query dialog, which contains the value `:PAS`. The dialog also includes sections for "Select Service", "Use Service", "Resume Job", "Running Jobs", and "Find Services". Below the dialog, a "Selected TAP Service" list shows one entry: `MINJPASPDR201912 (0/38) - ivo://cefca/minijpas/minij-pas-pdr201912`.

V.O. Asynchronous Queries

Mini J-PAS Services +

Create new job

VO Asynchronous Queries Options

Show my jobs Show users public

Query ADQL Tables: Most used Tables: All scientific Tables: VO services Functions Enumerations

ADQL query:

```
SELECT m.alpha_2000, m.delta_2000, m.flux_auto, m.class_star, i.name, i.tile_id
FROM minijpas.FNuDualObj m, minijpas.TileImage i
WHERE m.tile_id = i.tile_id AND CONTAINS(POINT("m.alpha_2000", m.delta_2000), CIRCLE("214.4100, 52.6932, .005)) = 1
```

Output Format: VOTable (text/xml)

Maximum # of rows: 1000000

Description:

Note: After planning the query use the Run pending job button to launch the execution.

Validate Query Plan Query Close

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V.O. Asynchronous Queries

The screenshot shows a web-based interface for querying astronomical data. At the top, there's a navigation bar with icons for user profile, search, and help, followed by a dropdown menu "Services". Below the header, a sidebar on the left has "VO Asynchronous" and "Options" sections, with checkboxes for "Show my jobs" (checked) and "Show users public". The main content area is titled "Create new job" and contains tabs for "Query" (selected), "ADQL", and several filters for tables: "Tables: Most used", "Tables: All scientific", "Tables: VO services", "Functions", and "Enumerations". A sub-section under "Tables: Most used" lists tables like minijpas.CalibTileImage, minijpas.Filter, minijpas.MagABDualObj, etc. The central part of the screen displays the details for the "Table minijpas.MagABDualObj". It includes a brief description of the table's purpose, its columns, and a detailed table of column metadata.

Table minijpas.MagABDualObj

Table that contains the main parameters of the astronomical objects detected in the images. The object detection and aperture definition is performed in a reference band ('SDSS') and the measurements are done in each filter using SExtractor (Dual Mode). Array columns (`type[]`) contains measures for each filter (NULL if the image in the filter is not available). Enumeration 'minijpas' can be used to refer filter positions in the array. Magnitude data is adjusted by the Image Zero Point and is in magnitude AB units.

COLUMNS

| Name | Type | Units | UCD | Description |
|----------------|--------|--------|-----------------------------------|--|
| TILE_ID | int | | meta.id;obs.image;meta.main | Identifier of the Tile Image where the object was detected |
| NUMBER | int | | meta.id;meta.main | Number identifier assigned by SExtractor for the object in the image |
| ALPHA_J2000 | double | deg | pos.eq.ra;meta.main | Right ascension in equatorial coordinates |
| DELTA_J2000 | double | deg | pos.eq.dec;meta.main | Declination in equatorial coordinates |
| hpix11 | int | | pos.healpix | Healpix index ORDER 11 (NESTED schema) of object position |
| X_IMAGE | float | pixel | pos.cartesian.x | X pixel coordinate (SExtractor's XWIN_IMAGE) |
| Y_IMAGE | float | pixel | pos.cartesian.y | Y pixel coordinate (SExtractor's YWIN_IMAGE) |
| R_EFF | float | pixel | phys.size.radius | Radius enclosing a specified fraction of the flux |
| FWHM_WORLD | float | deg | phys.angSize | FWHM assuming a Gaussian core |
| A_WORLD | float | deg | phys.angSize.smajAxis | Profile RMS along major axis (world units) |
| B_WORLD | float | deg | phys.angSize.sminAxis | Profile RMS along minor axis (world units) |
| THETA_J2000 | float | deg | pos.posAng | Position angle (east of north) (J2000) |
| ISOAREA_WORLD | float | deg**2 | phys.angArea | Isophotal area above Analysis threshold |
| RFI_FRA_WORL D | float | | stat.error;phys.angSize;meta.info | Relative error for Δ WORL D |

V.O. Asynchronous Queries

Mini J-PAS Services ▾

VO Asynchronous Queries Options

Show my jobs Show users public jobs

▼ Apply

Refresh + Create Query Job

Historical queries ADQL help and examples

Jobs

| Job ID | Phase | Owner | Public | Description | Quote (sec.) | Available until | Start time | Exec Time | Rows found | Run | Actions |
|--------|-----------|---------|--------|-------------|--------------|---------------------|---------------------|-----------|------------|---|---------|
| 320677 | COMPLETED | tcivera | / | | 1 | 2022-06-24 17:11:13 | 2022-06-20 17:11:14 | 0 s | 10 |      | |
| 320674 | COMPLETED | tcivera | / | | 1 | 2022-06-24 17:10:14 | 2022-06-20 17:10:15 | 0 s | 240 |      | |

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V.O. Asynchronous Queries

Mini J-PAS Services ▾

VO Asynchronous Queries Options

Show my jobs Show users public jobs Apply

Refresh + Create Query Job Historical queries ADQL help and examples

Jobs Job 320680 ×

| | | alpha_j2000 | delta_j2000 | flux_auto | class_star | name | tile_id |
|---------------|---------------|---|-------------|----------------------------|------------|------|---------|
| 214.409984617 | 52.6932495548 | 2118.88062 2859.41968 3837.09595 4323.67822 3774.60669 5168.96289 7217.42578 8183.36475 8306.52637 9210.37109 11204.7529 13029.6885 14497.084 14894.082 15832.7559 17018.0723 16892.9922 17096.4199 17105.293 19441.7285 21502.002 21908.1387 22666.7871 23335.1055 24795.7715 25961.2891 25906.2012 27303.1934 28060.9258 26550.0859 28384.6387 30519.0859 31505.8008 33425.8945 32800.0117 33525.1094 34643.1562 36369.8555 35832.1445 34096.2656 37013.8047 39197.7539 42387.707 44391.8125 44321.7188 44307.4023 43306.582 43995.4805 44520.2227 45573.9062 48033.2461 49453.8359 46061.1406 44850.1523 47672.2734 54683.7539 2890.8042 11200.3291 25350.4238 37859.8828 | 0.029 | AEGIS001-v201912_rSDSS_swp | 2241 | | |
| 214.417206278 | 52.6923026596 | 39.9170494 44.2841835 52.5823364 72.2865601 124.209358 109.12825 116.423538 105.52227 159.690048 183.870956 192.128159 207.166519 203.806244 213.276535 155.416275 219.238678 227.769775 237.397415 256.635803 227.13739 283.1745 234.693573 289.50705 305.490479 321.63324 339.874176 300.338989 349.422638 293.174011 331.919708 318.36792 368.437866 354.562195 387.74115 391.191162 355.143341 369.049347 332.523071 387.400238 462.091614 347.243011 438.715179 470.907013 360.743011 477.604309 514.183899 440.597229 415.823395 398.442017 445.306702 400.513458 438.659637 527.635376 467.719879 556.808594 499.976562 56.5427704 180.996796 345.039581 444.766846 | 0.910 | AEGIS001-v201912_rSDSS_swp | 2241 | | |

Showing 1 to 2 of 2 entries

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Direct Download Services



MINIJ-PAS-PDR201912 Direct Download Services

Direct download services are services accessible from the command line or from your own scripts using the indicated urls which allow you to retrieve images, cutouts, objects data and products. The available services are:

Download FITS Image

Download FITS Image or FITS Weight Image cutout

Download PSF model in a position

Download Graphic PNG Image cutout

Download All PhotoZ of the Image

Download RAW images information of the Image

Download FITS Weight Image

Download Image PSF model

Download Graphic PNG Image

Download Image Masks

Download the PhotoZ indicated of the Image

Download Reduced images information of the Image

DOWNLOAD FITS IMAGE

Service that allows to download the image fits file of the tile image indicated.

http://archive.cefca.es/catalogues/vo/siap/minijpas-pdr201912/get_fits?

id* = & **filter** =

Generate url

Launch

DOWNLOAD FITS WEIGHT IMAGE

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Service that allows to download the weight image fits file of the tile image indicated.

Developed and maintained by Tamara Civera (CEFA)

Direct Download Services

DOWNLOAD FITS IMAGE OR FITS WEIGHT IMAGE CUTOUT

Service that allows to download the image fits or weight image fits cutout of the tile image indicated.

http://archive.cefca.es/catalogues/vo/siap/minijpas-pdr201912/get_fits_cutout?

id* = & **ra*** = & **dec*** = & **width*** = & **height*** = & **filter** = &
weight =

RA, DEC, width and height in degrees.

MOC file download

Mini J-PAS Services ▾

Information about MINIJ-PAS-PDR201912 Services

Sky Navigator

Object List Search

Image Search

Cone Search

Coverage Map

Multi-Order Coverage Map (MOC)

VO Asynchronous Queries (ADQL)

ADQL Help and Examples

V.O. Services

Direct Download Services

What it Does

Use it when...

Lets you navigate through the sky by panning and zooming. When you click on an object, you get a summary of it and you have options to see its photospectrum, explore it or search it in other catalogues.

You are looking through the sky for objects to study.

Lets you upload a list of sky positions, object names or objects identifiers, then returns a list of objects near those positions. Displays a summary, photospectra and thumbnail images for the list of objects.

You want to quickly scan through a list of objects or you have a list of sky objects from another astronomical database and you want to find all objects near each of your objects. You want to create a report of a list of objects.

Lets you search and download coadded images by position or name. Lets you see a preview for each image.

You want to look at or download a coadded image.

Lets you search the database for objects near a certain sky position and with certain brightnesses.

You want to find objects in one part of the sky.

Lets you display the sky area covered by the data release.

You want to know the fields covered by the data release. These fields are linked to see them quickly in the sky navigator tool.

Lets you download the Multi-Order Coverage map (MOC) which describes the area covered by the data release (fits file).

You want to download the MOC file to compute very fast data set operations (unions, intersections,...) or query data (sources, images,...) of other data releases only inside this data release area using external tools like VizierR, Aladin or Topcat.

Lets you access to images and objects data through Virtual Observatory (V.O.) protocols using V.O. compatible applications. V.O. services offered are Simple Cone Search (SCS), Table Access Protocol (TAP), Simple Image Access Protocol (SIAP) and Simple Spectral Access Protocol (SSAP).

You want to use a V.O. compatible application to access catalogue data or images and you want to know the URL of the service.

V.O. Asynchronous Queries (ADQL)

Lets you search the database according to the criteria you have defined. You can search for objects that meet any criteria you can think of, such as color, magnitude, spectral type, etc.

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Help and user feedback

- **User's Manual**



- **Your feedback is welcome!**

- Contact form: <https://www.j-pas.org/contact>
- By e-mail to cefca@cefca.es



Mini J-PAS Services

MINIJ-PAS-PDR201912 - Data Access Services

Minij-PAS Public Data Release (December, 2019) provides access to the combined scientific images in 60 filters covering a total area of ~ 1deg². Mini_J-PAS-PDR201912 is based on images collected by the JST/T250 telescope and the Pathfinder instrument. This third internal data release covers the same area as the first MiniJ-PAS internal data release but data has been reprocessed using an improved version of the pipeline. This data release includes two types of data: FITS images and single and dual catalogue data (parameters measured from images, such as photometry or morphology data). Single catalogues are the ones where the detection and photometry had been done on each image independently. While, dual catalogues are the catalogues where the detection and photometry had been done using as reference image the r-SDSS image.

Minij-PAS web site offers dual catalogues data through several different online data access tools, each suited to a particular need. The table below gives a short description of each of tool indicating when you might use each one, based on what information you know already and what information you want to find out. Click on the name of a tool to connect to it. Single catalogue data is also available but currently only through V.O. services.

User Manual Contact Form

THANK YOU!

Questions or
comments?



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