POLLUX

Ph. Prugniel, CRAL, Lyon

travailler ensemble

périmètre

collections

services

data models

mesure de l’impact

interoperabilité

fonctionalités

pérennité

sécurité

périmètre

- PTNS (2017)

périmètre

- PTNS (2017)

  => Spectres stellaires (observés, synthétiques)

Spectres synthétiques

Spectres observés

Catalogues de données stellaires

périmètre

- PTNS (2017)

  => Spectres stellaires (observés, synthétiques)

Spectres synthétiques

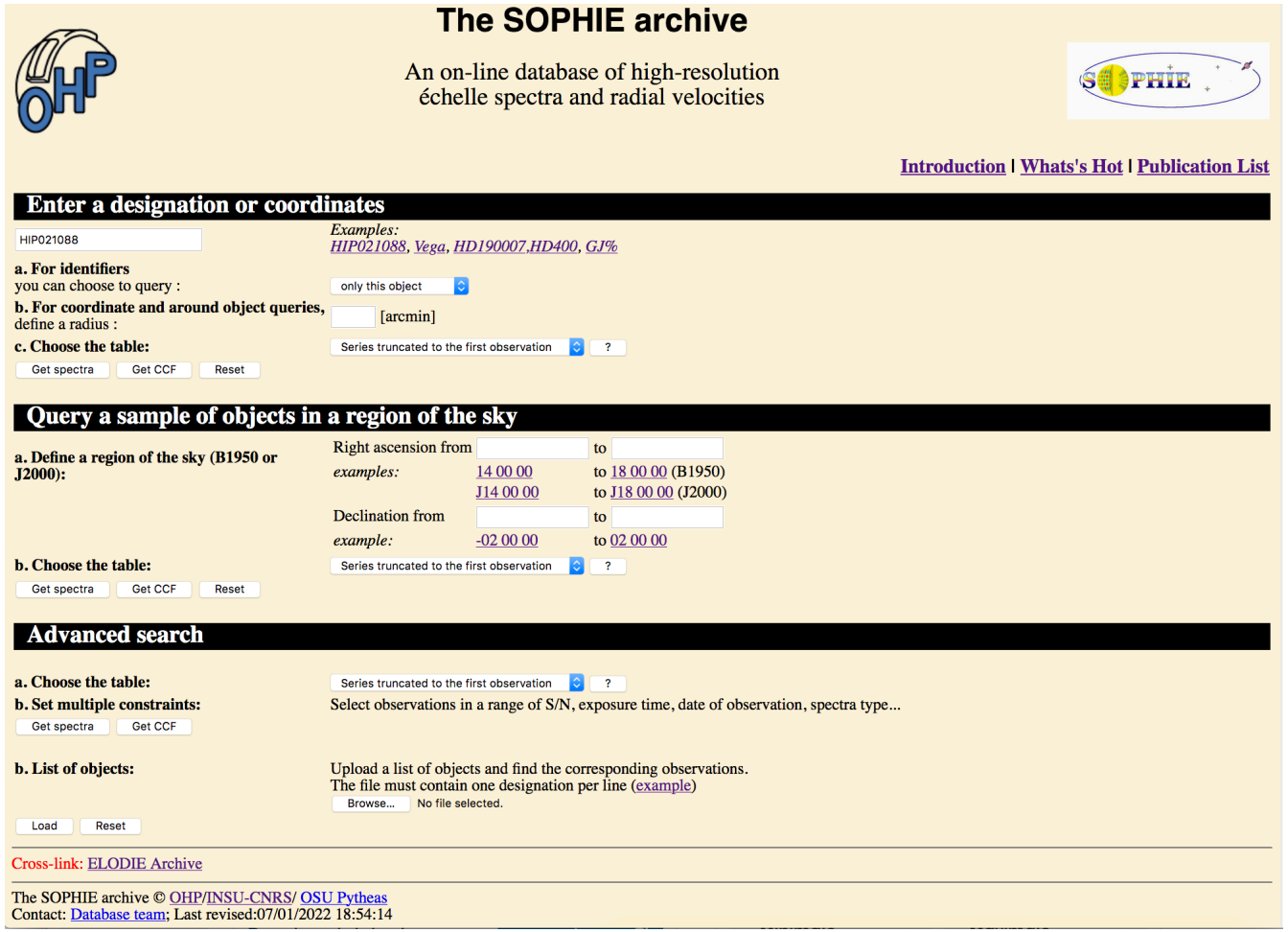
Spectres observés

Catalogues de données stellaires

Modèles d'atmosphère

Line lists

collections



The SOPHIE archive

An on-line database of high-resolution
échelle spectra and radial velocities

Introduction | Whats's Hot | Publication List

Enter a designation or coordinates

HIP021088

Examples:
HIP021088, *Vega*, *HD190007,HD400*, *GJ%*

a. For identifiers
you can choose to query : only this object

b. For coordinate and around object queries,
define a radius : [arcmin]

c. Choose the table: Series truncated to the first observation ?

Get spectra | Get CCF | Reset

Query a sample of objects in a region of the sky

a. Define a region of the sky (B1950 or J2000):

Right ascension from to
examples: 14 00 00 to 18 00 00 (B1950)
J14 00 00 to J18 00 00 (J2000)
Declination from to
example: -02 00 00 to 02 00 00

b. Choose the table: Series truncated to the first observation ?

Get spectra | Get CCF | Reset

Advanced search

a. Choose the table: Series truncated to the first observation ?

b. Set multiple constraints: Select observations in a range of S/N, exposure time, date of observation, spectra type...

Get spectra | Get CCF

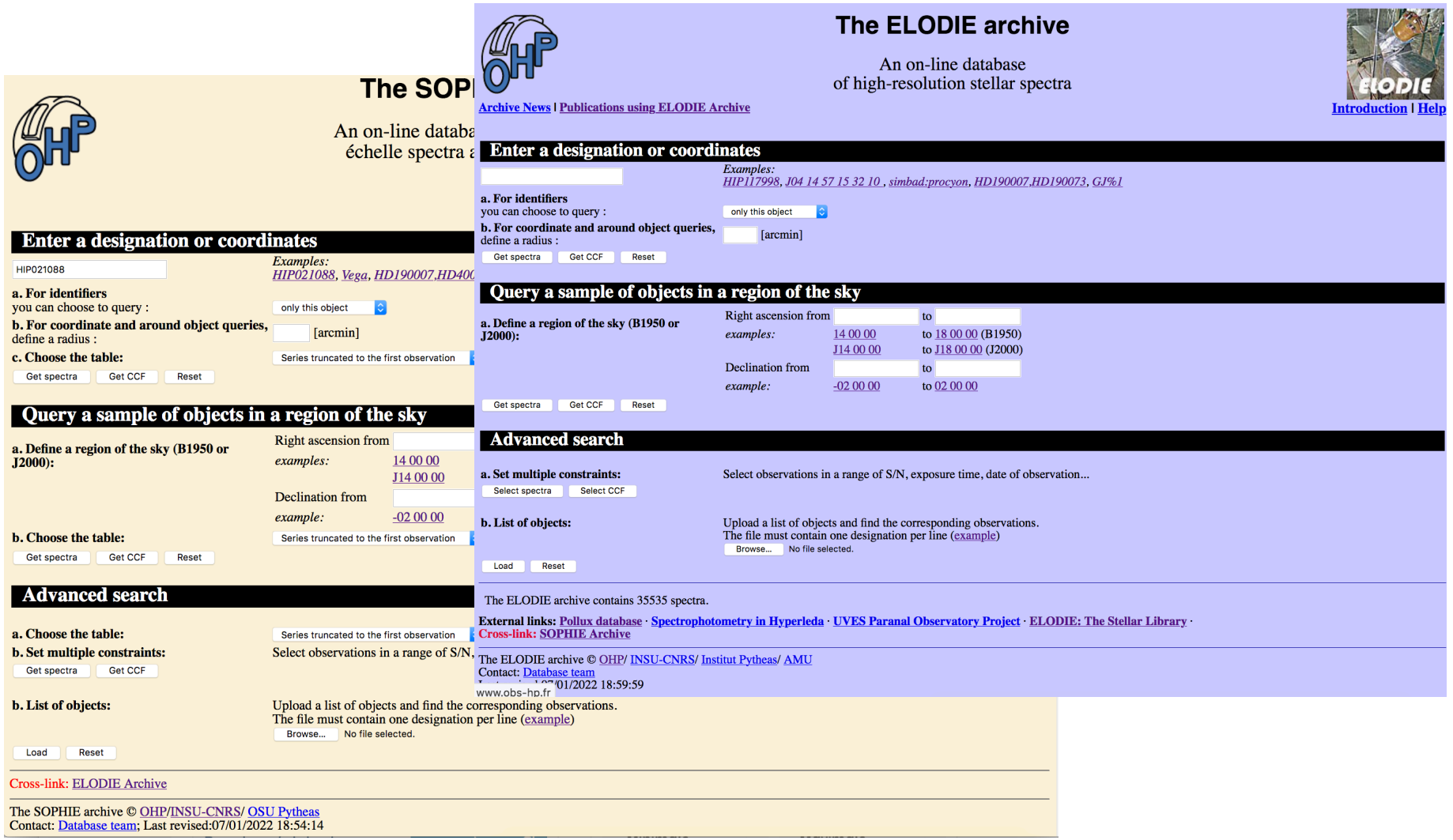
b. List of objects: Upload a list of objects and find the corresponding observations.
The file must contain one designation per line (example)
Browse... No file selected.

Load | Reset

Cross-link: ELODIE Archive

The SOPHIE archive © OHP/INSU-CNRS/ OSU Pytheas
Contact: Database team; Last revised:07/01/2022 18:54:14

collections



The SOP

An on-line databa
échelle spectra a

Enter a designation or coordinates

HIP021088

Examples:
HIP021088, *Vega*, *HD190007*,*HD400*

a. For identifiers
you can choose to query : only this object

b. For coordinate and around object queries,
define a radius : [arcmin]

c. Choose the table: Series truncated to the first observation

Get spectra | Get CCF | Reset

Query a sample of objects in a region of the sky

a. Define a region of the sky (B1950 or J2000):

Right ascension from
examples: 14 00 00
J14 00 00
Declination from
example: -02 00 00

b. Choose the table: Series truncated to the first observation

Get spectra | Get CCF | Reset

Advanced search

a. Choose the table: Series truncated to the first observation

b. Set multiple constraints: Select observations in a range of S/N,

Get spectra | Get CCF

b. List of objects: Upload a list of objects and find the corresponding observations.
The file must contain one designation per line (example)
Browse... No file selected.

Load | Reset

Cross-link: ELODIE Archive

The SOPHIE archive © OHP/INSU-CNRS/ OSU Pytheas
Contact: Database team; Last revised:07/01/2022 18:54:14

The ELODIE archive

An on-line database
of high-resolution stellar spectra

Archive News | Publications using ELODIE Archive

Introduction | Help

Enter a designation or coordinates

Examples:
HIP117998, *J04 14 57 15 32 10* , *simbad:procyon*, *HD190007*,*HD190073*, *GJ%1*

a. For identifiers
you can choose to query : only this object

b. For coordinate and around object queries,
define a radius : [arcmin]

Get spectra | Get CCF | Reset

Query a sample of objects in a region of the sky

a. Define a region of the sky (B1950 or J2000):

Right ascension from to
examples: 14 00 00 to 18 00 00 (B1950)
J14 00 00 to J18 00 00 (J2000)
Declination from to
example: -02 00 00 to 02 00 00

Get spectra | Get CCF | Reset

Advanced search

a. Set multiple constraints: Select observations in a range of S/N, exposure time, date of observation...

Select spectra | Select CCF

b. List of objects: Upload a list of objects and find the corresponding observations.
The file must contain one designation per line (example)
Browse... No file selected.

Load | Reset

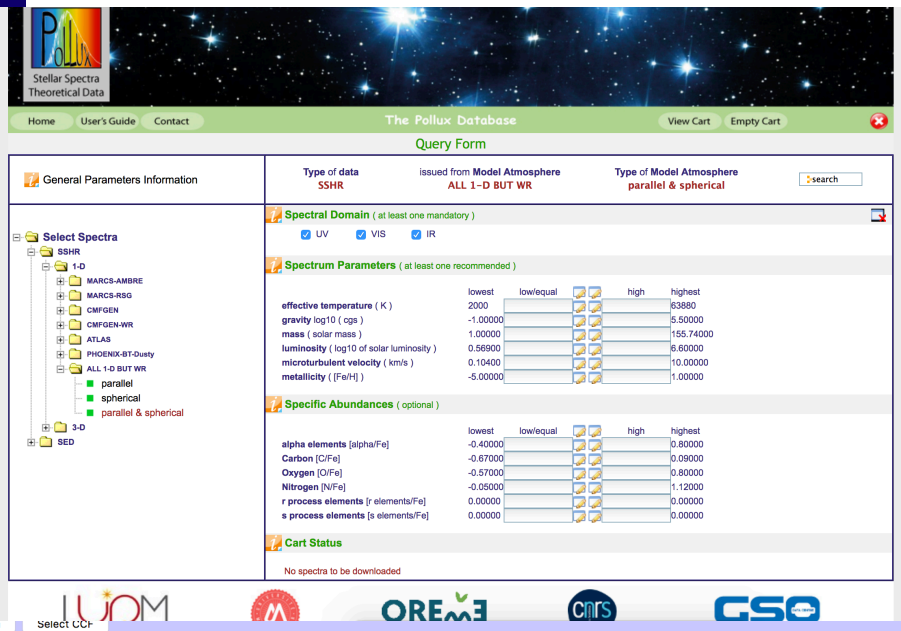
The ELODIE archive contains 35535 spectra.

External links: Pollux database · Spectrophotometry in Hyperleda · UVES Paranal Observatory Project · ELODIE: The Stellar Library ·
Cross-link: SOPHIE Archive

The ELODIE archive © OHP/ INSU-CNRS/ Institut Pytheas/ AMU
Contact: Database team
/01/2022 18:59:59

www.obs-hp.fr

collections



Introduction | Help

c. Choose the table: Series truncated to the first observation
Get spectra Get CCF Reset

Query a sample of objects in a region of the sky

a. Define a region of the sky (B1950 or J2000):
Right ascension from
examples: 14 00 00 J14 00 00
Declination from
example: -02 00 00

b. Choose the table: Series truncated to the first observation
Get spectra Get CCF Reset

Advanced search

a. Choose the table: Series truncated to the first observation
b. Set multiple constraints: Select observations in a range of S/N,
Get spectra Get CCF

b. List of objects: Upload a list of objects and find the corresponding observations.
The file must contain one designation per line (example)
Browse... No file selected.
Load Reset

Cross-link: ELODIE Archive

The SOPHIE archive © OHP/INSU-CNRS/ OSU Pytheas
Contact: Database team; Last revised:07/01/2022 18:54:14

Select spectra Select CCF

b. List of objects: Upload a list of objects and find the corresponding observations.
The file must contain one designation per line (example)
Browse... No file selected.
Load Reset

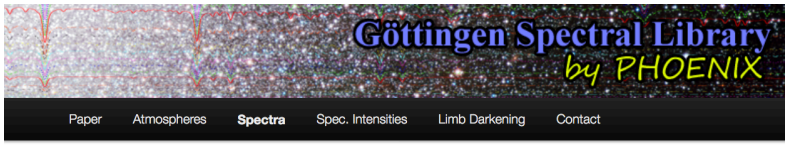
The ELODIE archive contains 35535 spectra.

External links: Pollux database · Spectrophotometry in Hyperleda · UVES Paranal Observatory Project · ELODIE: The Stellar Library ·
Cross-link: SOPHIE Archive

The ELODIE archive © OHP/ INSU-CNRS/ Institut Pytheas/ AMU
Contact: Database team
/01/2022 18:59:59

www.obs-hp.fr

collect



High resolution spectra

All high resolution spectra are available for download at:

ftp://phoenix.astro.physik.uni-goettingen.de/HiResFITS/

Download of single spectra

Please select the spectrum you want to download:

PARAMETERS

Teff: 6000
log(g): 4.5
[Fe/H]: 0.0
[α/M]: 0.0

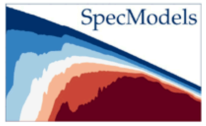
The parameter range of the grid is

PARAMETER	RANGE	STEP SIZE
T_{eff} [K]	2300 - 7000	100
	7000 - 12000	200
log(g)	0.0 - 6.0	0.5
[Fe/H]	-4.0 - -2.0	1.0
	-2.0 - +1.0	0.5
[α/M]	-0.2 - +1.2	0.2

Alpha element abundances [α/M]≠0 are available for -3.0≤[Fe/H]≤0.0. only.

DOWNLOAD

luction | Help



SpecModels Home
News & Updates
Search & Download
Additional Data
P. Coelho website

FITS Search & Download

» Instructions at the bottom.

Back to Libraries Search List

Stars from Coelho 14 (HIGHRES)

TEFF	min		max	±10%
LOG_G	min		max	±.5
[Fe/H]	min		max	±.5
[α/Fe]	min		max	±.5

Show Results

Stars from Coelho 14 (HR)

Instructions:
The search interface allows for the selection of FITS files for a range of parameters and provid
links to the individual FITS files, a plain text with the current list result; and two links (tgz and

www.obs-hp.fr

b. List of objects:

Upload a list of objects and find the corresponding obse
The file must contain one designation per line (example

Browse... No file selected.

Load Reset

Cross-link: ELODIE Archive

The SOPHIE archive © OHP/INSU-CNRS/ OSU Pytheas
Contact: Database team; Last revised:07/01/2022 18:54:14

Model stellar spectra for B to early-M : J/A+A/618/A25

Access to VizieR FTP ReadMe TAP

Authors : Allende Prieto C. , Koesterke L., Hubeny I. et..al

Bibcode : 2018A&A...618A..25A (ADS) Cite

UAT : Astronomical models, Spectroscopy

Model (MC)
Inserted into VizieR : 09-Oct-2018

Article Origin | Description | See also | Prov | FTP

Archives are available through FTP in standardized format described in the ReadMe.
VizieR tables are built from archives with additional transformations.

J/A+A/618/A25 Model stellar spectra for B to early-M (Allende Prieto+, 2018)

Go to ftp - web page - Download all tables in tar.gz

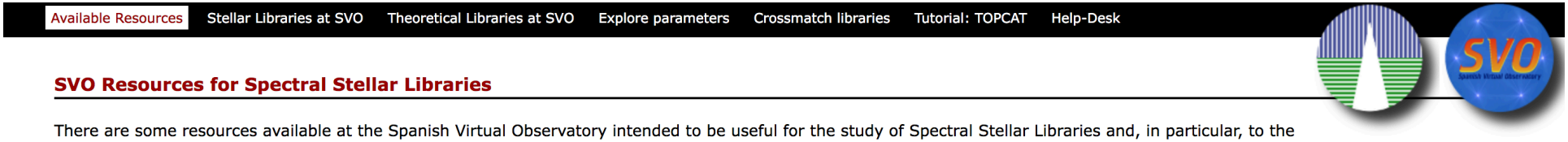
ReadMe	"09-Oct-2018 08:48"	-r--r--r--	6.5K
ns	"04-Oct-2018 16:40"	drwxr-xr-x	135
nsc	"04-Oct-2018 16:40"	drwxr-xr-x	4.0K

collections

<> base de données centralisée

collections

<> base de données centralisée



collections

<> base de données centralisée

Available Resources | Stellar Libraries at SVO | Theoretical Libraries at SVO | Explore parameters | Crossmatch libraries | Tutorial: TOPCAT | Help-Desk

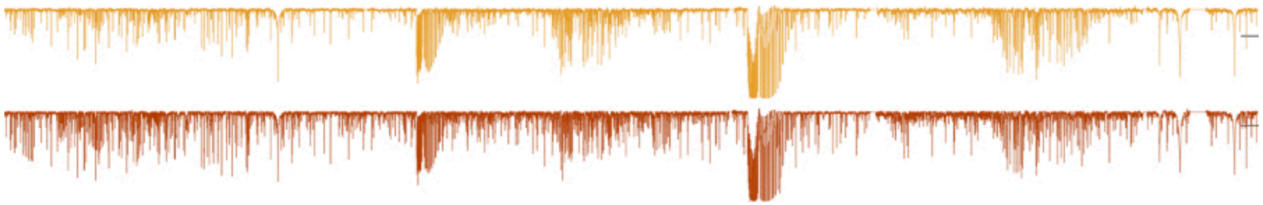
SVO Resourc

There are some
Virtual Observat

- Stella
- Theor
- Explo
- Cross
- Cross
- Other

Stellar Spectral Libraries

IAU Commission G5 WG



Home | Members | Tasks | Activities | Reports | Links

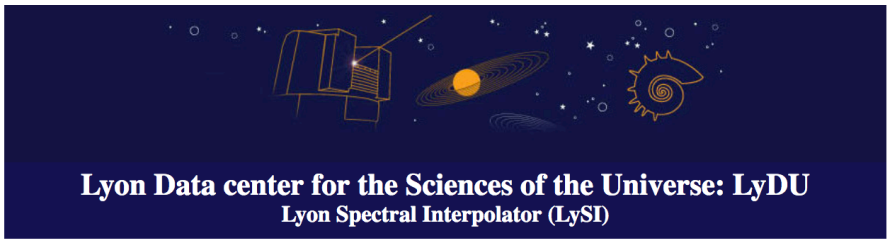
The dissemination of the libraries and their accurate description

SVO developments on stellar libraries (Carlos)

- Introduction
- Task 1: Implementation of the Datalink capabilities in the SVOCAT publishing tool:
- Task 2: Use of SVOCAT to build VO services for observational stellar libraries.
  - Task 2.1: MILES
  - Task 2.2: CaT
  - Task 2.3: BDSS Low-Res: The NIRSPEC Brown Dwarf Spectroscopic Survey. Low-Resolution Data.
  - Task 2.4: Gaia FGK benchmark stars
  - Task 2.5: SpeX Prism Library
  - Task 2.6: UVES/VLT M subdwarfs
  - Task 2.7: L and T dwarf archive
  - Task 2.8: STELIB
  - Task 2.9: The X-Shooter Spectral Library
- Task 3: The spectral library comparison tools.

- Example of SSAP query (Search around RA=10,DEC=20 with Radius=10 deg):
  http://atlas.obs-hp.fr/elodie/E.cgi?a=t&c=ssa&n=ssa&POS=10,20&SIZE=10

services



Lyon Data center for the Sciences of the Universe: LyDU
Lyon Spectral Interpolator (LySI)

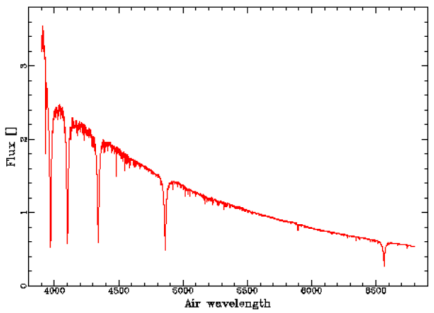
The LySI online service computes interpolated stellar spectra at a given point of the parameter space. Currently, the interface gives access to two recent interpolator models, based on the ELODIE and MILES libraries of observed spectra, and to older versions of these interpolators (maintened for references and comparisons). The parameter space has three dimensions: Teff, logg and [Fe/H]. These models are global polynomial interpolators described in Prugniel & Soubiran (2001), Wu et al. (2011), Prugniel et al. (2011) and Sharma et al. (2016). They are continuous and derivable all throughout the parameter space.

Select an interpolator

Elodie 3.2 Teff: 10000 log(g): 4 [Fe/H]: 0 Plot Download FITS

Display the spectrum

File identification and executed pipeline: lysi:[elodie3.2,10000,4,0]&z=vs



Replot in wavelength range to [0.1 nm]

View Header Download the 1D spectrum as FITS file

einpot 8.18.4