

Instructions for contributing to ZBLLAC

(Version: 9 November 2022)

In order to contribute to the database ZBLLAC, please provide the following information and data (files).

Spectrum File Format:

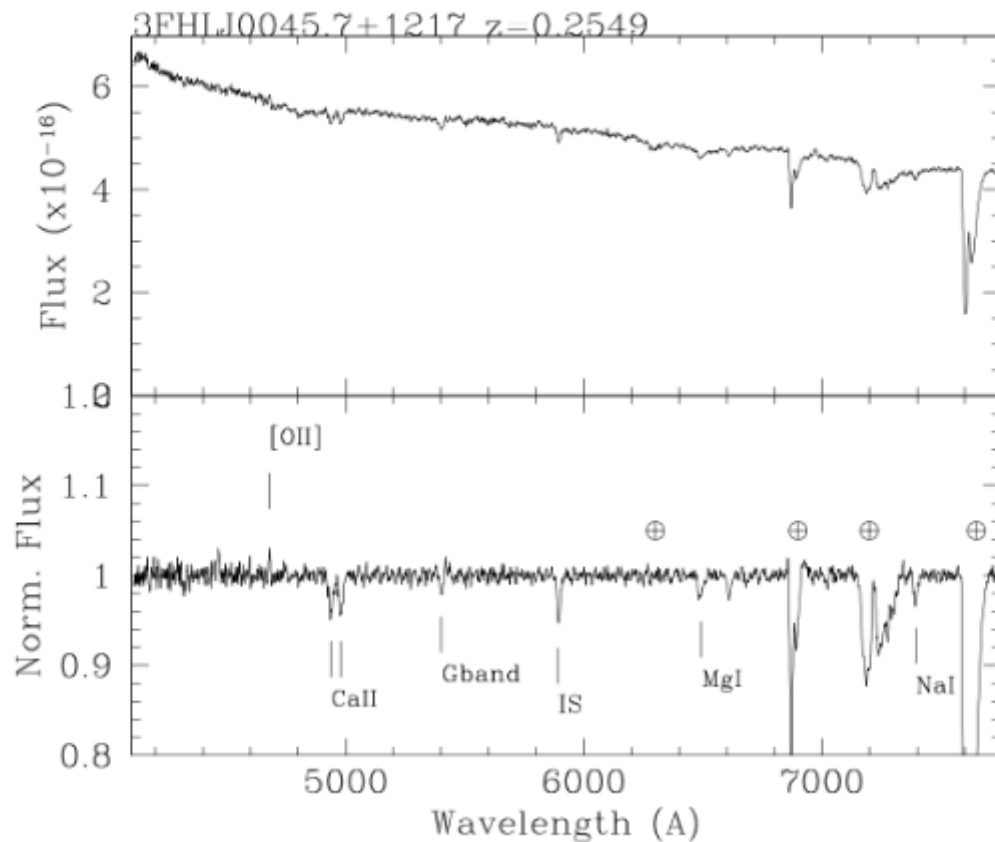
It is necessary to give a 1D spectrum text file in which the first column reports the observed wavelength (units of Angstrom) and the second column the differential spectral flux in units of 10^{-16} erg/cm²/s/Å.

Example of text file containing the spectrum:

```
# x y
#
4110.00 6.399e+00
4111.00 6.458e+00
4112.00 6.512e+00
4113.00 6.567e+00
4114.00 6.545e+00
4115.00 6.516e+00
4116.00 6.542e+00
```

```
4105.00 6.040e-01
4106.00 5.668e-01
4107.00 5.300e-01
4108.00 4.934e-01
4109.00 4.550e-01
```

Figure Format:



Moreover, also a figure of the spectrum is required to be uploaded.

The figure file should be similar to the ones already reported in the database.

As a general rule, it should be composed of two panels where the first one reports the calibrated spectrum in the same unit of the file (see above) and the second one shows the normalized spectrum (to emphasize the detected lines) with identification of possible spectral features.

The normalized spectrum is not necessary if the lines are well evident in the spectrum.

The figure shall also report the name of the source and the redshift (if known).

Table format:

Provide a plain ASCII table containing information on the spectrum of each source that should be added to the current ZBLLAC database.

Here the details of the entries:

objName = Name of the source

ra, dec = Right ascension and Declination

z = Redshift (if unknown put ?, if uncertain put : after the value)

mag (V) = V or g band magnitude

specSPC = Name of the txt spectrum file

specPDF = Name of the pdf file of the spectrum figure
Reference = reference where the spectrum is reported
type = Classification of the source (B = BLLac, FSRQ= Flat Spectrum Radio Quasars,
QSO = Quasar , NLSy1 = Narrow Line Seyfert 1, Sy2 = Seyfert 2)
setup = put one of the setup reported here <https://web.oapd.inaf.it/zblac/setuptab.html>
or put 999 if the setup is not present
date = Date of the observation

In particular, the file must be a plain text file (ASCII) with one row for each source with the following format:

```
#objName; ra; dec; z; mag (V); specSPC; specPDF; Reference ; type; setup;  
date  
#  
# NOTE : fields are separated by ";"  
#  
#Sample file for ingesting the new spectra into the ZBLLAC database  
#  
# Examples  
#  
PKS 0048-097 ; 00 48 00.0; -09 07 00.0; 0.680 ; 15.50 ; 0048TXT.dat;  
0048PDF.pdf; Landoni et al 2013 ; B; 13; 05 July 2010  
PG 1553+113 ; 15 53 00.0; +11 30 00.0; ? ; 14.50 ; 1553.txt; 1553.pdf;  
Landoni et al 2012 ; B; 10; 05 February 2009
```

Links to publications:

The contributor shall also provide ADS link for publications which objects refers to with basic bibliographic information and the link to ADS or other available server with online publication.

Example:

Landoni, M. Falomo, R., Treves, A. Scarpa, R., Reverte Payá, D. 2015, [A.J.149 163](#)