

All_AGNs

September 4, 2018

1 Blazars/non-blazars samples definition

These note is to define the samples of blazars and non-blazar objects for future data analysis. Eventually, we will have a list of coordinates (RA,Dec), ID and *class* for each sample.

We are going to use the 5BzCat catalog of blazars (~3000 objects) and a list of AGNs from Paolo (~13k objects).

```
In [1]: import matplotlib
        from matplotlib import pyplot as plt
        %matplotlib inline

        import seaborn as sns
        print(sns.__version__)

        import pandas as pd
        print(pd.__version__)
```

```
0.9.0
0.23.4
```

```
In [2]: %ls
```

```
4carlosAll.csv          AGNSample_Label_RA_DEC.csv
4carlosAll.csv.BKP      AGN_AllColumns.csv
4carlosSeyf.txt         All_AGNs.ipynb
4carlosall.txt          BzCat.ipynb
5BZCAT.csv*             PastedGraphic-1.pdf
5BZCAT.csv.BKP*         VOU_Blazars/
5bzcata_label_ra_dec.csv tmp/
AGNSample_AllColumns.csv work/
```

1.1 AllAGNs: All AGNs sample

```
In [3]: agns = pd.read_csv('4carlosAll.csv', sep=',')
        agns.sample(10)
```

```

Out [3]:
          Name      RA(2000)  DEC(2000)  redsh  Vmag  Radio Fl  X Fl(mJ  \
4488      S5 0740+82  07 50 57.3   82 41 58  1.991  18.2    931.0    0.000
13         WEE    3  00 03 26.9  -01 59 54  2.220  19.7      0.0    0.000
10399     FBQS1626+30  16 26 59.2   30 15 35  1.580  17.5      0.0    0.000
9648      Q 1451+4747  14 52 47.3   47 35 29  1.161  18.3     31.0    0.000
10569     1638.8+4012  16 40 29.5   40 07 14  1.183  19.4      0.0    0.000
6364      MARK 1298  11 29 16.7  -04 24 08  0.060  14.6      1.0    0.034
9801     2E 1510+3902  15 12 30.7   38 50 51  0.228  18.5      0.0    0.011
423      HBQS0035-35  00 38 17.2  -35 04 05  1.519  18.3      0.0    0.000
5898      QNB1:20   10 43 06.6   01 08 49  2.503  20.6      0.0    0.000
7105      Q 1217+1236  12 20 14.1   12 20 20  1.047  18.2      0.0    0.000

```

```

          Class
4488    QSO radio loud steep
13       QSO radio quiet
10399    QSO radio loud
9648     QSO radio loud
10569    QSO radio quiet
6364     Seyfert type 1
9801     Galaxy unbarred
423      QSO radio quiet
5898     QSO radio quiet
7105     QSO radio quiet

```

```

In [4]: def sex2deg(ra,dec):
        h,m,s = list(map(float,ra.split()))
        ra = s / 86400
        ra += m / 1440
        ra += h / 24
        ra *= 360

        d,m,s = dec.split()
        dec = float(s) / 3600
        dec += float(m) / 60
        if d[0] == '-':
            dec = float(d) - dec
        else:
            dec = float(d) + dec

        return ra,dec

In [5]: ra,dec = sex2deg('00 59 44.9',' -00 21 30')

        print(ra,dec)

```

```

14.937083333333332 -0.35833333333333334

```

```

In [6]: RA_COL = 'RA(2000)'
        DEC_COL = 'DEC(2000)'

```

```
def apply_df(df):
    try:
        bla = list(sex2deg(df[RA_COL],df[DEC_COL]))
    except:
        bla = [None,None]
    return bla

agns[['RA','DEC']] = agns.apply(apply_df, axis=1, result_type='expand')
```

```
In [7]: agns.index.name = 'ID'
        agns.reset_index(inplace=True)
        agns
```

```
Out [7]:
```

| | ID | Name | RA(2000) | DEC(2000) | redsh | Vmag | Radio Fl | \ |
|-------|-------|--------------|------------|-----------|-------|------|----------|-----|
| 0 | 0 | WEE 1 | 00 02 37.4 | -02 21 12 | 1.740 | 18.5 | 0.0 | |
| 1 | 1 | Q 0000+0159 | 00 02 38.0 | 02 15 58 | 1.073 | 18.1 | 0.0 | |
| 2 | 2 | BG KPN 1 | 00 02 53.7 | 01 26 19 | 2.803 | 20.6 | 0.0 | |
| 3 | 3 | Q 0000+025A | 00 02 57.9 | 02 48 38 | 1.684 | 17.2 | 0.0 | |
| 4 | 4 | Q 0000+027A | 00 03 00.5 | 03 02 25 | 2.384 | 17.7 | 0.0 | |
| 5 | 5 | Q 0000-029 | 00 03 01.4 | -02 41 41 | 2.310 | 17.7 | 0.0 | |
| 6 | 6 | Q 0000-398 | 00 03 03.6 | -39 32 08 | 2.827 | 18.5 | 0.0 | |
| 7 | 7 | MARK 334 | 00 03 09.6 | 21 57 36 | 0.022 | 14.6 | 11.0 | |
| 8 | 8 | UM 16 | 00 03 10.1 | 04 44 55 | 0.058 | 16.1 | 0.0 | |
| 9 | 9 | Q 0000+025B | 00 03 19.8 | 02 51 34 | 0.310 | 17.7 | 0.0 | |
| 10 | 10 | WEE 2 | 00 03 21.5 | -02 00 24 | 2.200 | 20.4 | 0.0 | |
| 11 | 11 | PKS 0000-17 | 00 03 22.1 | -17 27 14 | 1.465 | 18.7 | 894.0 | |
| 12 | 12 | Q 0000-26 | 00 03 23.0 | -26 03 18 | 4.111 | 17.2 | 0.0 | |
| 13 | 13 | WEE 3 | 00 03 26.9 | -01 59 54 | 2.220 | 19.7 | 0.0 | |
| 14 | 14 | Q 0000-4244 | 00 03 27.3 | -42 27 22 | 1.700 | 20.1 | 0.0 | |
| 15 | 15 | Q 0000-4239 | 00 03 29.2 | -42 22 32 | 2.190 | 20.8 | 0.0 | |
| 16 | 16 | BG KPN 2 | 00 03 30.3 | 00 08 12 | 2.590 | 20.3 | 0.0 | |
| 17 | 17 | BG KPN 3 | 00 03 31.1 | 01 54 18 | 2.220 | 19.7 | 0.0 | |
| 18 | 18 | NGC 7808 | 00 03 32.1 | -10 44 40 | 0.029 | 14.8 | 0.0 | |
| 19 | 19 | Q 0001+0214 | 00 03 36.1 | 02 30 49 | 0.232 | 20.7 | 0.0 | |
| 20 | 20 | 0001+0842 | 00 03 42.6 | 08 59 40 | 3.241 | 19.0 | 0.0 | |
| 21 | 21 | TEX 0001-121 | 00 03 42.9 | -11 51 48 | 1.300 | 17.7 | 0.0 | |
| 22 | 22 | Q 0001-007A | 00 03 49.9 | -00 26 53 | 2.190 | 17.7 | 0.0 | |
| 23 | 23 | Q 0001-0159 | 00 03 51.1 | -01 42 45 | 1.364 | 17.4 | 0.0 | |
| 24 | 24 | Q 0001-4227 | 00 03 50.8 | -42 11 08 | 2.240 | 18.9 | 0.0 | |
| 25 | 25 | BG CFH 1 | 00 03 55.9 | -00 55 27 | 2.490 | 21.8 | 0.0 | |
| 26 | 26 | Q 0001-4256 | 00 03 56.6 | -42 39 27 | 2.030 | 18.5 | 0.0 | |
| 27 | 27 | BG CFH 2 | 00 03 60.0 | -00 30 37 | 0.354 | 20.1 | 0.0 | |
| 28 | 28 | BG CFH 3 | 00 04 01.2 | -00 39 01 | 2.340 | 20.7 | 0.0 | |
| 29 | 29 | Q 0001+022A | 00 04 01.6 | 02 31 50 | 2.260 | 18.2 | 0.0 | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 13346 | 13346 | PB 5679 | 00 00 58.1 | -00 46 47 | 1.920 | 17.7 | 0.0 | |
| 13347 | 13347 | KAZ 238 | 00 00 58.1 | 33 20 39 | 0.043 | 16.1 | 0.0 | |

| | | | | | | | |
|-------|-------|--------------|------------|-----------|-------|------|-------|
| 13348 | 13348 | WEE 188 | 00 01 01.8 | -02 15 42 | 0.060 | 21.0 | 0.0 |
| 13349 | 13349 | PKS 2358-161 | 00 01 05.4 | -15 51 08 | 2.044 | 18.3 | 305.0 |
| 13350 | 13350 | TEX 2358+189 | 00 01 08.6 | 19 14 34 | 3.100 | 20.2 | 197.0 |
| 13351 | 13351 | PB 5682 | 00 01 09.4 | 01 26 39 | 0.724 | 18.4 | 0.0 |
| 13352 | 13352 | UM 194 | 00 01 16.6 | 00 02 07 | 0.780 | 18.2 | 0.0 |
| 13353 | 13353 | Q 2358+025 | 00 01 19.2 | 02 49 18 | 2.750 | 17.7 | 0.0 |
| 13354 | 13354 | Q 2358+0216 | 00 01 21.7 | 02 33 04 | 1.872 | 18.3 | 0.0 |
| 13355 | 13355 | Q 2358+010 | 00 01 29.4 | 01 17 10 | 0.370 | 19.0 | 0.0 |
| 13356 | 13356 | 2359+0653 | 00 01 40.6 | 07 09 54 | 3.234 | 18.4 | 0.0 |
| 13357 | 13357 | UM 195 | 00 01 46.2 | -01 59 34 | 0.867 | 18.3 | 0.0 |
| 13358 | 13358 | BG KPN 9 | 00 01 46.8 | 00 39 59 | 2.897 | 19.6 | 0.0 |
| 13359 | 13359 | BG KPN 10 | 00 01 47.1 | 00 14 27 | 2.120 | 20.5 | 0.0 |
| 13360 | 13360 | Q 2359-004 | 00 01 49.5 | -00 10 39 | 2.190 | 18.2 | 0.0 |
| 13361 | 13361 | BG KPN 11 | 00 01 49.7 | 01 11 43 | 2.140 | 21.0 | 0.0 |
| 13362 | 13362 | UM 196 | 00 01 50.0 | -01 59 40 | 2.818 | 18.6 | 0.0 |
| 13363 | 13363 | Q 2359-011 | 00 01 54.0 | -00 50 04 | 2.780 | 16.7 | 0.0 |
| 13364 | 13364 | Q 2359+022 | 00 01 56.7 | 02 33 25 | 2.370 | 17.7 | 0.0 |
| 13365 | 13365 | Q 2359-397 | 00 01 58.2 | -39 27 37 | 2.030 | 18.7 | 28.0 |
| 13366 | 13366 | PB 5692 | 00 02 01.5 | 03 10 19 | 1.320 | 17.2 | 0.0 |
| 13367 | 13367 | Q 2359+011A | 00 02 06.4 | 01 25 25 | 0.810 | 18.7 | 0.0 |
| 13368 | 13368 | BG KPN 12 | 00 02 12.0 | 00 32 51 | 2.670 | 19.7 | 0.0 |
| 13369 | 13369 | Q 2359+0158 | 00 02 15.6 | 02 15 17 | 1.570 | 18.4 | 0.0 |
| 13370 | 13370 | PB 5694 | 00 02 22.5 | -00 04 44 | 0.810 | 18.3 | 0.0 |
| 13371 | 13371 | CFHT 00.0207 | 00 02 24.5 | -00 41 29 | 1.352 | 21.6 | 0.0 |
| 13372 | 13372 | MARK 543 | 00 02 26.3 | 03 21 09 | 0.026 | 14.7 | 0.0 |
| 13373 | 13373 | BG KPN 13 | 00 02 27.0 | 01 26 49 | 2.990 | 20.3 | 0.0 |
| 13374 | 13374 | PB 5698 | 00 02 30.8 | 00 49 56 | 1.360 | 19.4 | 0.0 |
| 13375 | 13375 | Q 2359-003B | 00 02 31.0 | -00 06 51 | 1.580 | 16.7 | 0.0 |

| | X Fl(mJ) | Class | RA | DEC |
|----|----------|----------------------|----------|------------|
| 0 | 0.000 | QSO radio quiet | 0.655833 | -2.353333 |
| 1 | 0.000 | QSO radio quiet | 0.658333 | 2.266111 |
| 2 | 0.000 | QSO radio quiet | 0.723750 | 1.438611 |
| 3 | 0.000 | QSO radio quiet | 0.741250 | 2.810556 |
| 4 | 0.000 | QSO radio quiet | 0.752083 | 3.040278 |
| 5 | 0.000 | QSO radio quiet | 0.755833 | -2.694722 |
| 6 | 0.000 | QSO radio loud flat | 0.765000 | -39.535556 |
| 7 | 0.240 | Seyfert type 1 | 0.790000 | 21.960000 |
| 8 | 0.000 | Seyfert type 2 | 0.792083 | 4.748611 |
| 9 | 0.000 | QSO radio quiet | 0.832500 | 2.859444 |
| 10 | 0.000 | QSO radio quiet | 0.839583 | -2.006667 |
| 11 | 0.000 | QSO radio loud steep | 0.842083 | -17.453889 |
| 12 | 0.003 | QSO radio quiet | 0.845833 | -26.055000 |
| 13 | 0.000 | QSO radio quiet | 0.862083 | -1.998333 |
| 14 | 0.000 | QSO radio quiet | 0.863750 | -42.456111 |
| 15 | 0.000 | QSO radio quiet | 0.871667 | -42.375556 |
| 16 | 0.000 | QSO radio quiet | 0.876250 | 0.136667 |
| 17 | 0.000 | QSO radio quiet | 0.879583 | 1.905000 |

| | | | | |
|-------|-------|----------------------|----------|------------|
| 18 | 0.000 | Seyfert type 1 | 0.883750 | -10.744444 |
| 19 | 0.000 | Galaxy unbarred | 0.900417 | 2.513611 |
| 20 | 0.000 | QSO radio quiet | 0.927500 | 8.994444 |
| 21 | 0.000 | QSO radio loud | 0.928750 | -11.863333 |
| 22 | 0.000 | QSO radio quiet | 0.957917 | -0.448056 |
| 23 | 0.000 | QSO radio quiet | 0.962917 | -1.712500 |
| 24 | 0.000 | QSO radio quiet | 0.961667 | -42.185556 |
| 25 | 0.000 | QSO radio quiet | 0.982917 | -0.924167 |
| 26 | 0.000 | QSO radio quiet | 0.985833 | -42.657500 |
| 27 | 0.000 | Galaxy unbarred | 1.000000 | -0.510278 |
| 28 | 0.000 | QSO radio quiet | 1.005000 | -0.650278 |
| 29 | 0.000 | QSO radio quiet | 1.006667 | 2.530556 |
| ... | ... | ... | ... | ... |
| 13346 | 0.000 | QSO radio quiet | 0.242083 | -0.779722 |
| 13347 | 0.000 | Seyfert type 2 | 0.242083 | 33.344167 |
| 13348 | 0.000 | Galaxy unbarred | 0.257500 | -2.261667 |
| 13349 | 0.000 | QSO radio loud steep | 0.272500 | -15.852222 |
| 13350 | 0.000 | QSO radio loud flat | 0.285833 | 19.242778 |
| 13351 | 0.000 | QSO radio quiet | 0.289167 | 1.444167 |
| 13352 | 0.000 | QSO radio quiet | 0.319167 | 0.035278 |
| 13353 | 0.000 | QSO radio quiet | 0.330000 | 2.821667 |
| 13354 | 0.000 | QSO radio quiet | 0.340417 | 2.551111 |
| 13355 | 0.000 | Galaxy unbarred | 0.372500 | 1.286111 |
| 13356 | 0.000 | QSO radio quiet | 0.419167 | 7.165000 |
| 13357 | 0.000 | QSO radio quiet | 0.442500 | -1.992778 |
| 13358 | 0.000 | QSO radio quiet | 0.445000 | 0.666389 |
| 13359 | 0.000 | QSO radio quiet | 0.446250 | 0.240833 |
| 13360 | 0.000 | QSO radio quiet | 0.456250 | -0.177500 |
| 13361 | 0.000 | QSO radio quiet | 0.457083 | 1.195278 |
| 13362 | 0.000 | QSO radio quiet | 0.458333 | -1.994444 |
| 13363 | 0.000 | QSO radio quiet | 0.475000 | -0.834444 |
| 13364 | 0.000 | QSO radio quiet | 0.486250 | 2.556944 |
| 13365 | 0.000 | QSO radio loud flat | 0.492500 | -39.460278 |
| 13366 | 0.000 | QSO radio quiet | 0.506250 | 3.171944 |
| 13367 | 0.000 | QSO radio quiet | 0.526667 | 1.423611 |
| 13368 | 0.000 | QSO radio quiet | 0.550000 | 0.547500 |
| 13369 | 0.000 | QSO radio quiet | 0.565000 | 2.254722 |
| 13370 | 0.000 | QSO radio quiet | 0.593750 | -0.078889 |
| 13371 | 0.000 | Galaxy unbarred | 0.602083 | -0.691389 |
| 13372 | 0.564 | Seyfert type 1 | 0.609583 | 3.352500 |
| 13373 | 0.000 | QSO radio quiet | 0.612500 | 1.446944 |
| 13374 | 0.000 | QSO radio quiet | 0.628333 | 0.832222 |
| 13375 | 0.000 | QSO radio quiet | 0.629167 | -0.114167 |

[13376 rows x 11 columns]

In [8]: agns.groupby('Class').size().sort_values(ascending=False)

Out[8]: Class

| | |
|----------------------|------|
| QSO radio quiet | 6842 |
| QSO radio loud flat | 1300 |
| Galaxy unbarred | 1164 |
| Seyfert type 1 | 982 |
| QSO radio loud steep | 841 |
| Seyfert type 2 | 467 |
| BL Lac | 417 |
| Radio Galaxy | 299 |
| Radio Galaxy radio l | 288 |
| QSO radio loud | 246 |
| QSO | 196 |
| Starburst galaxy | 144 |
| unidentified | 84 |
| Liner | 51 |
| Radio Galaxy radio q | 44 |
| Spiral galaxy mixed | 3 |
| AGN unclassified | 3 |
| Spiral galaxy | 1 |
| Non-active galaxy | 1 |
| Spiral galaxy barred | 1 |
| Elliptical galaxy | 1 |
| Cluster of galaxies | 1 |

dtype: int64

1.1.1 Define the columns of interest

```
In [9]: col = dict(ra='RA',
                  dec='DEC',
                  idn='ID',
                  name='Name',
                  redshift='redsh',
                  flux_opt='Vmag',
                  flux_radio='Radio F1',
                  flux_xray='X F1(mJ)',
                  klass='Class'
                )

In [10]: # Remove objects without radio flux
#
agns = agns.loc[agns[col['flux_radio']] > 0]

# Keep only the columns of interest
#
agns = agns[list(col.values())]

# And let's order our catalog by their Radio flux
#
```

```

agns = agns.sort_values(col['flux_radio'], ascending=False).reset_index(drop=True)

# Create a "label" column for running and labeling it in VOU-Blazars
#
agns['label'] = agns[col['idn']].astype(str) + '_' + agns[col['ra']].round(4).astype(str)

columns = agns.columns
columns = [columns[i-1] for i in range(len(columns))]

agns = agns[columns]

```

In [11]: agns

```

Out[11]:

```

| | label | RA | DEC | ID | Name \ |
|------|-------------------------|------------|------------|-------|-----------------|
| 0 | 11139_299_8679_40_7339 | 299.867917 | 40.733889 | 11139 | 3C 405.0 |
| 1 | 7330_187_7054_12_3908 | 187.705417 | 12.390833 | 7330 | 1Jy1228+126 |
| 2 | 3556_50_6725_-37_2092 | 50.672500 | -37.209167 | 3556 | 1Jy0320-374 |
| 3 | 3555_50_6717_-37_2075 | 50.671667 | -37.207500 | 3555 | For A |
| 4 | 3535_49_9504_41_5117 | 49.950417 | 41.511667 | 3535 | 3C84 |
| 5 | 3536_49_9504_41_5117 | 49.950417 | 41.511667 | 3536 | S40316+413 |
| 6 | 3537_49_9504_41_5117 | 49.950417 | 41.511667 | 3537 | 1Jy0316+413 |
| 7 | 7297_187_2779_2_0522 | 187.277917 | 2.052222 | 7297 | 3C 273.0 |
| 8 | 7296_187_2775_2_0522 | 187.277500 | 2.052222 | 7296 | 3C273 |
| 9 | 7295_187_2775_2_0522 | 187.277500 | 2.052222 | 7295 | 1Jy1226+023 |
| 10 | 12799_343_4904_16_1481 | 343.490417 | 16.148056 | 12799 | 3C454.3 |
| 11 | 12798_343_4904_16_1481 | 343.490417 | 16.148056 | 12798 | 1Jy2251+158 |
| 12 | 12797_343_4904_16_1481 | 343.490417 | 16.148056 | 12797 | 3C 454.3 |
| 13 | 10767_260_1171_-0_9794 | 260.117083 | -0.979444 | 10767 | 1Jy1717-009 |
| 14 | 10766_260_1171_-0_9797 | 260.117083 | -0.979722 | 10766 | 3C353 |
| 15 | 3971_69_2679_29_6703 | 69.267917 | 29.670278 | 3971 | 3C123 |
| 16 | 7869_194_0462_-5_7892 | 194.046250 | -5.789167 | 7869 | 3C279 |
| 17 | 7868_194_0462_-5_7892 | 194.046250 | -5.789167 | 7868 | 3C 279 |
| 18 | 7870_194_0462_-5_7892 | 194.046250 | -5.789167 | 7870 | 1Jy1253-055 |
| 19 | 3970_69_2679_29_6703 | 69.267917 | 29.670278 | 3970 | 1Jy0433+295 |
| 20 | 4180_79_9542_-45_7794 | 79.954167 | -45.779444 | 4180 | Pic A |
| 21 | 4179_79_9542_-45_7794 | 79.954167 | -45.779444 | 4179 | 1Jy0518-458 |
| 22 | 4178_79_9542_-45_7794 | 79.954167 | -45.779444 | 4178 | PKS 0518-45 |
| 23 | 5054_139_5262_-12_0964 | 139.526250 | -12.096389 | 5054 | 1Jy0915-118 |
| 24 | 5053_139_5238_-12_0953 | 139.523750 | -12.095278 | 5053 | 3C 218 |
| 25 | 5052_139_5233_-12_0953 | 139.523333 | -12.095278 | 5052 | Hyd A |
| 26 | 8453_201_3671_-43_0167 | 201.367083 | -43.016667 | 8453 | CENTAURUS-A |
| 27 | 11990_329_2738_-69_6897 | 329.273750 | -69.689722 | 11990 | 2152-69 |
| 28 | 11991_329_2742_-69_6897 | 329.274167 | -69.689722 | 11991 | PKS 2153-69 |
| 29 | 10665_252_7842_4_9906 | 252.784167 | 4.990556 | 10665 | Her A |
| ... | ... | ... | ... | ... | ... |
| 3797 | 4408_109_2108_36_91 | 109.210833 | 36.910000 | 4408 | MS 07134+3700 |
| 3798 | 4060_73_1833_-3_2169 | 73.183333 | -3.216944 | 4060 | IRAS 04502-0317 |
| 3799 | 13001_351_8808_12_385 | 351.880833 | 12.385000 | 13001 | NGC 7672 |

| | | | | | |
|------|------------------------|------------|------------|-------|---------------|
| 3800 | 4056_72_9054_-18_3122 | 72.905417 | -18.312222 | 4056 | MS 04494-1823 |
| 3801 | 4038_72_155_-6_32 | 72.155000 | -6.320000 | 4038 | NGC 1667 |
| 3802 | 3998_70_4075_2_0633 | 70.407500 | 2.063333 | 3998 | MS 04390+0158 |
| 3803 | 3697_55_5188_-21_2442 | 55.518750 | -21.244167 | 3697 | ESO 548-G81 |
| 3804 | 3610_53_4154_-5_0894 | 53.415417 | -5.089444 | 3610 | NGC 1358 |
| 3805 | 5424_149_8733_-22_8261 | 149.873333 | -22.826111 | 5424 | NGC 3081 |
| 3806 | 5571_153_7288_0_5603 | 153.728750 | 0.560278 | 5571 | PG 1012+008 |
| 3807 | 7606_190_045_10_7364 | 190.045000 | 10.736389 | 7606 | Q 1237+1100 |
| 3808 | 6070_164_1092_-4_1778 | 164.109167 | -4.177778 | 6070 | Q 1053-038 |
| 3809 | 7560_189_6483_17_7619 | 189.648333 | 17.761944 | 7560 | Q 1236+1802 |
| 3810 | 7368_188_015_20_1583 | 188.015000 | 20.158333 | 7368 | TON 1542 |
| 3811 | 7366_187_9092_70_7339 | 187.909167 | 70.733889 | 7366 | 1ES 1229+710 |
| 3812 | 7350_187_8912_8_2997 | 187.891250 | 8.299722 | 7350 | Q 1229+0834 |
| 3813 | 7228_186_4538_33_5469 | 186.453750 | 33.546944 | 7228 | NGC 4395 |
| 3814 | 7163_185_8242_9_3856 | 185.824167 | 9.385556 | 7163 | Q 1220+0939 |
| 3815 | 7141_185_4338_75_3106 | 185.433750 | 75.310556 | 7141 | MARK 205 |
| 3816 | 6970_183_6675_14_4831 | 183.667500 | 14.483056 | 6970 | Q 1212+1445 |
| 3817 | 6963_183_5738_14_0536 | 183.573750 | 14.053611 | 6963 | PG 1211+143 |
| 3818 | 6812_181_1754_27_9033 | 181.175417 | 27.903333 | 6812 | GQ COM |
| 3819 | 6773_180_3104_-3_6778 | 180.310417 | -3.677778 | 6773 | MARK 1310 |
| 3820 | 6696_178_5517_0_1367 | 178.551667 | 0.136667 | 6696 | MARK 1308 |
| 3821 | 12553_338_5375_0_0006 | 338.537500 | 0.000556 | 12553 | Q 2231-0015 |
| 3822 | 6649_177_8354_54_6258 | 177.835417 | 54.625833 | 6649 | PG 1148+549 |
| 3823 | 6444_174_1221_21_5961 | 174.122083 | 21.596111 | 6444 | MARK 739E |
| 3824 | 6306_170_4462_11_7386 | 170.446250 | 11.738611 | 6306 | MARK 734 |
| 3825 | 6225_168_2454_21_9094 | 168.245417 | 21.909444 | 6225 | MS 11103+2210 |
| 3826 | 6364_172_3196_-4_4022 | 172.319583 | -4.402222 | 6364 | MARK 1298 |

| | redsh | Vmag | Radio Fl | X Fl(mJ | Class |
|----|-------|------|----------|---------|----------------------|
| 0 | 0.056 | 14.5 | 213100.0 | 4.013 | QSO radio loud steep |
| 1 | 0.004 | 12.9 | 74890.0 | 3.893 | Radio Galaxy radio l |
| 2 | 0.006 | 9.1 | 71133.0 | 0.111 | Radio Galaxy radio l |
| 3 | 0.006 | 8.8 | 71133.0 | 0.111 | Radio Galaxy radio l |
| 4 | 0.017 | 11.9 | 47261.0 | 17.514 | Radio Galaxy radio l |
| 5 | 0.018 | 11.9 | 47200.0 | 17.514 | Radio Galaxy radio l |
| 6 | 0.017 | 11.9 | 46310.0 | 17.514 | Radio Galaxy radio l |
| 7 | 0.158 | 12.8 | 40117.0 | 17.223 | QSO radio loud flat |
| 8 | 0.158 | 12.8 | 40117.0 | 17.223 | QSO radio loud flat |
| 9 | 0.158 | 12.8 | 40117.0 | 17.223 | QSO radio loud flat |
| 10 | 0.860 | 16.1 | 23261.0 | 1.033 | QSO radio loud flat |
| 11 | 0.860 | 16.1 | 23261.0 | 1.033 | QSO radio loud flat |
| 12 | 0.860 | 16.1 | 23261.0 | 1.033 | QSO radio loud flat |
| 13 | 0.030 | 15.4 | 22150.0 | 0.000 | Radio Galaxy radio l |
| 14 | 0.031 | 15.8 | 20143.0 | 0.000 | Radio Galaxy radio l |
| 15 | 0.218 | 19.9 | 16229.0 | 0.000 | Radio Galaxy radio l |
| 16 | 0.538 | 17.8 | 16110.0 | 1.171 | QSO radio loud flat |
| 17 | 0.538 | 17.8 | 16110.0 | 1.171 | QSO radio loud flat |
| 18 | 0.538 | 17.8 | 16110.0 | 1.171 | QSO radio loud flat |

| | | | | | |
|------|-------|------|---------|-------|----------------------|
| 19 | 0.218 | 21.7 | 15940.0 | 0.000 | Radio Galaxy radio 1 |
| 20 | 0.035 | 16.0 | 14999.0 | 2.066 | Radio Galaxy |
| 21 | 0.035 | 15.8 | 14999.0 | 2.066 | Radio Galaxy |
| 22 | 0.035 | 15.8 | 14999.0 | 2.066 | Radio Galaxy |
| 23 | 0.055 | 14.8 | 13990.0 | 2.235 | Radio Galaxy radio 1 |
| 24 | 0.054 | 14.7 | 13497.0 | 2.235 | Radio Galaxy radio 1 |
| 25 | 0.054 | 14.7 | 13497.0 | 2.235 | Radio Galaxy radio 1 |
| 26 | 0.002 | 7.0 | 13367.0 | 5.746 | Radio Galaxy radio 1 |
| 27 | 0.027 | 14.0 | 12442.0 | 1.273 | QSO radio loud steep |
| 28 | 0.027 | 14.0 | 12442.0 | 1.273 | QSO radio loud steep |
| 29 | 0.154 | 16.9 | 12413.0 | 0.275 | Radio Galaxy |
| ... | ... | ... | ... | ... | ... |
| 3797 | 0.122 | 16.8 | 1.0 | 0.124 | Seyfert type 1 |
| 3798 | 0.016 | 15.0 | 1.0 | 0.011 | Seyfert type 2 |
| 3799 | 0.013 | 14.2 | 1.0 | 0.000 | Seyfert type 2 |
| 3800 | 0.338 | 17.6 | 1.0 | 0.182 | Seyfert type 2 |
| 3801 | 0.015 | 12.9 | 1.0 | 0.000 | Seyfert type 2 |
| 3802 | 0.196 | 18.7 | 1.0 | 0.169 | Seyfert type 1 |
| 3803 | 0.015 | 13.7 | 1.0 | 1.381 | Seyfert type 1 |
| 3804 | 0.013 | 13.1 | 1.0 | 0.000 | Seyfert type 2 |
| 3805 | 0.007 | 13.6 | 1.0 | 0.092 | Seyfert type 2 |
| 3806 | 0.185 | 15.6 | 1.0 | 0.685 | Seyfert type 1 |
| 3807 | 0.881 | 18.2 | 1.0 | 0.000 | QSO radio quiet |
| 3808 | 0.452 | 17.9 | 1.0 | 0.064 | QSO radio quiet |
| 3809 | 0.517 | 18.4 | 1.0 | 0.000 | QSO radio loud |
| 3810 | 0.064 | 15.3 | 1.0 | 1.237 | Seyfert type 1 |
| 3811 | 0.208 | 0.0 | 1.0 | 0.705 | Seyfert type 1 |
| 3812 | 0.761 | 18.3 | 1.0 | 0.000 | QSO radio loud |
| 3813 | 0.001 | 10.1 | 1.0 | 0.006 | Seyfert type 1 |
| 3814 | 0.681 | 17.3 | 1.0 | 0.053 | QSO radio quiet |
| 3815 | 0.070 | 15.2 | 1.0 | 1.669 | Seyfert type 1 |
| 3816 | 1.627 | 17.6 | 1.0 | 0.000 | QSO radio quiet |
| 3817 | 0.085 | 14.2 | 1.0 | 1.006 | Seyfert type 1 |
| 3818 | 0.165 | 15.6 | 1.0 | 0.341 | Seyfert type 1 |
| 3819 | 0.019 | 15.5 | 1.0 | 0.362 | Seyfert type 1 |
| 3820 | 0.004 | 14.2 | 1.0 | 0.000 | Starburst galaxy |
| 3821 | 3.015 | 17.2 | 1.0 | 0.000 | QSO radio quiet |
| 3822 | 0.978 | 15.8 | 1.0 | 0.047 | QSO radio quiet |
| 3823 | 0.030 | 14.1 | 1.0 | 0.713 | Seyfert type 1 |
| 3824 | 0.049 | 14.9 | 1.0 | 0.578 | Seyfert type 1 |
| 3825 | 0.030 | 16.6 | 1.0 | 0.074 | Seyfert type 1 |
| 3826 | 0.060 | 14.6 | 1.0 | 0.034 | Seyfert type 1 |

[3827 rows x 10 columns]

```
In [12]: fileout = 'AGNSample_Label_RA_DEC.csv'
         agns[['label', col['ra'], col['dec']]].to_csv(fileout, index=False, sep=" ", float_for
```

```

fileout = 'AGNSample_AllColumns.csv'
agns.to_csv(fileout, index=False, sep=" ", float_format='%.5f')

In [13]: # for gn,grp in agns.groupby('Class'):
#         obj_class_name = gn.replace(' ', '_')
#         print(obj_class_name, len(grp))
#         fileout = 'AGNSample_{}.csv'.format(obj_class_name)
#         grp[['label', col['ra'], col['dec']]].to_csv(fileout, index=False, sep=" ", flo

In [14]: agns.groupby('Class').size().sort_values(ascending=False)

Out[14]: Class
QSO radio loud flat      1298
QSO radio loud steep     841
BL Lac                   405
Radio Galaxy             299
Radio Galaxy radio 1     284
Seyfert type 1           162
QSO radio loud           135
Seyfert type 2           120
unidentified              56
Starburst galaxy         53
QSO radio quiet           47
Radio Galaxy radio q     44
Galaxy unbarred           27
QSO                       26
Liner                     24
Spiral galaxy mixed       2
Spiral galaxy             1
Spiral galaxy barred      1
Elliptical galaxy         1
Cluster of galaxies       1
dtype: int64

```

Spiral galaxies, Elliptical and Cluster will be removed because of low numbers

```
In [15]: agns = agns.dropna()
```

1.2 Spectra retrieval

At this point, the SED of each object (providing one) is built from VOU-Blazars (VOUB hereafter). Results of VOUB are placed in ./work/AGN_all_radio_non_null/Results, in particular the SEDs go inside SEDtool/ in that dir.

```
In [16]: %ls work/AGN_all_radio_non_null/Results/
```

```

10000_232_8554_35_5608/  2003_20_4179_-63_1506/  5300_146_9383_7_4222/
10001_232_9304_24_0717/  2004_20_6617_25_0422/  5301_147_3008_66_2497/
10002_232_9304_24_0717/  2005_20_6158_-4_3575/  5302_147_3008_66_2497/

```

| | | |
|--------------------------|------------------------|-------------------------|
| 10003_232_9308_24_0717/ | 2006_20_6692_23_1708/ | 5306_146_9175_-30_9483/ |
| 10010_233_3129_13_5403/ | 200_4_1363_79_2806/ | 5309_147_5683_72_2833/ |
| 10013_233_4183_35_7392/ | 2014_20_7862_34_3469/ | 530_10_655_3_2392/ |
| 10014_232_8892_72_1111/ | 201_4_0454_-0_2536/ | 5310_147_2304_40_6622/ |
| 10015_232_8904_72_1114/ | 202_4_2837_81_5853/ | 5311_147_2304_40_6622/ |
| 10017_233_6346_15_195/ | 203_4_285_81_5856/ | 5312_147_2304_40_6622/ |
| 10018_233_7183_1_5172/ | 2044_21_1117_33_7994/ | 5314_147_0396_-32_3961/ |
| 10019_233_7187_1_5181/ | 2045_20_9767_-35_0656/ | 5318_147_2742_-19_9528/ |
| 10022_233_7388_23_5033/ | 2055_21_1288_11_095/ | 5325_147_5446_14_3325/ |
| 10024_233_7533_53_3431/ | 2056_21_1875_32_1656/ | 5339_148_1133_50_8142/ |
| 10025_233_7533_53_3436/ | 2062_21_1992_32_1239/ | 5340_148_0329_29_2369/ |
| 10026_233_7383_58_6567/ | 2064_21_1471_3_7919/ | 5342_148_1104_36_1014/ |
| 10028_234_195_1_6328/ | 2067_21_1446_-4_0172/ | 5343_148_1329_35_2147/ |
| 10030_233_9671_49_9608/ | 206_4_2583_32_1564/ | 5346_148_0796_-1_6122/ |
| 10032_234_0717_46_4589/ | 2070_21_1854_9_3136/ | 5347_148_6975_74_5989/ |
| 10033_233_9679_57_9025/ | 2071_21_4946_72_7625/ | 5348_148_1892_0_0047/ |
| 10039_234_7246_17_025/ | 2080_21_3808_32_1364/ | 5353_148_5408_49_2494/ |
| 10041_234_8646_24_9481/ | 2082_21_3217_-0_3078/ | 5354_148_5412_49_2497/ |
| 10045_234_895_47_5919/ | 2091_21_3704_-0_0989/ | 5357_148_8883_69_0653/ |
| 10046_235_2058_14_7958/ | 2092_21_3704_-0_0994/ | 5360_148_9612_69_6786/ |
| 10047_235_2062_14_7961/ | 2099_21_7692_73_3869/ | 5361_148_9612_69_6786/ |
| 10050_235_2442_47_6411/ | 2106_21_5021_-1_345/ | 5362_148_9612_69_6786/ |
| 10052_235_5508_18_5881/ | 2107_21_5025_-1_345/ | 5366_148_7367_17_7253/ |
| 10053_235_5812_17_9356/ | 2120_21_5621_-22_3758/ | 5367_148_7371_9_4986/ |
| 10054_235_3558_53_8039/ | 2122_21_6846_33_2197/ | 5368_148_8688_43_9589/ |
| 10057_235_7342_10_9103/ | 2123_21_685_33_2192/ | 5369_148_9158_45_5381/ |
| 10059_237_7454_-82_9683/ | 2125_21_6783_25_9836/ | 5371_148_9083_33_5844/ |
| 10063_235_7542_35_4208/ | 2136_22_9879_84_7703/ | 5372_148_9504_35_5564/ |
| 10064_236_0779_4_9728/ | 2137_21_81_-41_2119/ | 5386_149_2179_41_2558/ |
| 10068_236_2479_4_1297/ | 2142_21_9333_-34_965/ | 5390_149_2075_25_2542/ |
| 10072_236_1883_37_2189/ | 2161_22_4987_23_6389/ | 5391_149_2079_25_2544/ |
| 10075_236_2854_47_8653/ | 2162_22_4996_23_6389/ | 5392_149_4088_55_3828/ |
| 10078_236_3758_48_7694/ | 2181_22_8317_-40_7647/ | 5393_149_4088_55_3825/ |
| 10079_236_5738_17_2336/ | 2196_23_1808_-16_9131/ | 5394_149_4088_55_3825/ |
| 10080_235_0654_81_9183/ | 2197_23_1812_-16_9136/ | 5395_149_4092_55_3828/ |
| 10087_236_9317_20_8711/ | 2202_23_38_35_6681/ | 5399_149_6967_65_5653/ |
| 10090_236_8375_49_6181/ | 2203_23_3525_24_4611/ | 539_10_7867_52_0589/ |
| 10092_237_0746_35_1911/ | 2211_23_2738_-52_0008/ | 5400_149_6967_65_5653/ |
| 10094_237_3721_2_6172/ | 2218_23_4696_1_2294/ | 5401_149_6967_65_565/ |
| 10095_237_3721_2_6169/ | 2228_23_49_-36_4931/ | 5402_149_6967_65_565/ |
| 10098_237_4025_18_5836/ | 2229_23_4904_-36_4928/ | 5404_149_5117_38_4994/ |
| 10102_237_4942_10_4089/ | 2235_23_5758_-29_4183/ | 5406_149_5817_47_4186/ |
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| 10104_238_8375_-79_6764/ | 2259_23_9062_-20_1461/ | 540_10_7867_52_0589/ |
| 10105_238_8396_-79_6767/ | 2263_23_8988_-38_9069/ | 5411_149_5871_32_4006/ |
| 10106_238_8446_-79_6761/ | 2268_24_1012_20_9575/ | 541_10_7883_52_0597/ |
| 10107_237_3221_50_6347/ | 2269_24_1012_20_9575/ | 5424_149_8733_-22_8261/ |
| 10108_237_3229_50_635/ | 226_4_6529_-7_0469/ | 5426_150_0908_22_5553/ |

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| 10111_237_6467_5_4528/ | 2270_24_1021_20_9572/ | 5427_150_2279_53_535/ |
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| 10114_237_6817_11_3464/ | 2275_24_2438_47_8581/ | 5432_150_3367_55_8983/ |
| 10115_237_6833_11_3464/ | 2276_24_2438_47_8581/ | 5433_150_3371_55_8969/ |
| 10123_237_4933_62_6894/ | 2277_24_2442_47_8581/ | 5444_150_61_68_9758/ |
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| 10125_239_245_-79_2342/ | 2291_24_4217_33_1597/ | 5447_150_4271_20_805/ |
| 10126_239_2458_-79_2344/ | 2292_24_4221_33_1597/ | 5449_150_4558_28_7856/ |
| 10130_238_0375_20_0967/ | 2297_24_4096_-24_515/ | 5450_150_4562_28_7861/ |
| 10132_237_4846_70_2153/ | 2298_24_41_-24_5147/ | 5451_150_4562_28_7856/ |
| 10135_237_9917_58_1125/ | 230_4_81_15_9322/ | 5454_150_7779_68_2217/ |
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| 10160_238_93_11_1892/ | 2333_25_1562_-12_6989/ | 5483_151_5071_34_9028/ |
| 10161_238_93_11_1892/ | 233_4_9404_73_4583/ | 5484_151_5071_34_9028/ |
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| 10170_239_4638_-0_0306/ | 2344_25_3575_-9_4789/ | 5487_152_5663_82_8372/ |
| 10171_239_4642_-0_0306/ | 2347_25_4912_39_3917/ | 5490_151_5904_12_7594/ |
| 10172_239_2942_41_5433/ | 234_4_9404_73_4583/ | 5492_151_7354_34_9125/ |
| 10173_239_375_33_0794/ | 235_4_9075_20_3628/ | 5493_153_52_85_8978/ |
| 10174_239_5917_-14_1664/ | 2362_25_7575_13_6417/ | 5495_151_6929_-21_9892/ |
| 10184_239_9229_-24_7108/ | 236_4_9158_26_0478/ | 5496_151_7679_-2_1197/ |
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| 10206_240_5508_6_2511/ | 2416_27_1237_14_0383/ | 5522_152_6146_41_5439/ |
| 10208_240_6138_1_9656/ | 2422_27_0983_-50_6597/ | 5523_152_8858_71_4114/ |
| 10209_240_6138_1_9653/ | 2428_27_3429_5_9317/ | 5524_152_5608_23_1092/ |
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| 10212_240_4188_43_2797/ | 2431_27_2196_-49_7867/ | 5537_153_0554_6_5158/ |
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| 10216_240_53_33_4478/ | 2446_27_575_-11_1456/ | 5541_153_5625_74_6275/ |
| 10217_240_575_30_8528/ | 2451_27_6542_-19_9861/ | 5550_153_4562_34_7642/ |
| 10230_240_9754_30_0358/ | 2460_27_7775_-9_5333/ | 5551_153_4562_34_7639/ |
| 10231_240_9754_30_0356/ | 2480_28_075_22_1186/ | 5556_153_4725_24_8211/ |
| 10233_241_1883_1_2972/ | 2481_28_075_22_1186/ | 5558_153_3733_-28_5239/ |
| 10234_241_1883_1_2972/ | 2483_28_1438_33_8422/ | 5560_153_5625_3_4658/ |
| 10235_241_1896_1_2972/ | 2485_27_9358_-50_8356/ | 5563_153_6492_27_8175/ |

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| 10236_241_2338_-0_3186/ | 2488_28_1137_-20_0186/ | 5566_154_3988_81_0883/ |
| 10238_241_3596_-9_4539/ | 249_5_3638_73_2117/ | 5568_153_7675_49_4333/ |
| 10241_240_9825_57_515/ | 2502_28_2925_-33_1739/ | 5569_153_7675_49_4333/ |
| 10246_241_5054_17_7947/ | 2514_28_7346_47_7242/ | 5570_153_6962_23_0217/ |
| 10253_241_7762_15_8592/ | 2521_28_5821_-51_1308/ | 5571_153_7288_0_5603/ |
| 10255_241_7254_28_9261/ | 2522_28_8762_43_7675/ | 5574_154_2212_73_4011/ |
| 10262_241_8546_35_4669/ | 2523_28_7654_4_6403/ | 5575_153_8154_1_9811/ |
| 10264_242_0467_28_8172/ | 2525_28_8421_6_6117/ | 5576_153_99_48_6333/ |
| 10267_242_1921_10_4853/ | 2527_28_8588_2_4733/ | 557_10_9938_73_7361/ |
| 10268_242_1925_10_4853/ | 2528_29_395_74_7122/ | 5580_153_9875_1_1536/ |
| 10274_242_2975_17_9375/ | 2529_29_3954_74_7119/ | 5586_154_2642_59_4081/ |
| 10276_242_305_26_6911/ | 2530_29_3954_74_7119/ | 5590_154_3088_39_0228/ |
| 10277_242_305_26_6911/ | 2532_28_9996_15_0367/ | 5596_154_4554_27_5347/ |
| 10281_242_5225_18_1958/ | 2542_29_3138_31_9053/ | 5604_154_5454_35_7108/ |
| 10284_242_6392_11_2586/ | 2550_29_2562_-40_4847/ | 5605_154_5458_35_7108/ |
| 10287_242_3071_65_5414/ | 2553_29_4233_-10_7281/ | 5608_154_6063_38_0925/ |
| 10290_242_3942_65_9436/ | 2559_29_4088_-49_255/ | 5613_154_5383_-31_7372/ |
| 10291_242_3958_65_9442/ | 2568_29_6171_-40_4081/ | 5614_154_5383_-31_7372/ |
| 10292_242_4033_65_9458/ | 2581_29_7512_-47_5156/ | 5616_154_5904_-21_6689/ |
| 10293_242_4033_65_9458/ | 2587_29_9592_0_3947/ | 5628_155_0417_10_6672/ |
| 10296_244_4546_-77_2883/ | 2591_30_0162_1_4197/ | 5629_155_2233_48_5236/ |
| 10297_244_455_-77_2883/ | 2594_30_1229_27_21/ | 5631_155_0137_-42_8614/ |
| 10298_244_4562_-77_2883/ | 2597_29_9596_-41_6003/ | 5632_155_0158_-42_8581/ |
| 102_1_9996_47_2019/ | 2600_30_0504_-30_8908/ | 5633_155_0163_-42_8583/ |
| 10300_243_4208_34_2131/ | 2601_30_0508_-30_8889/ | 5634_155_8625_80_5475/ |
| 10301_243_4208_34_2131/ | 2602_30_0508_-30_8889/ | 5637_155_3229_34_6231/ |
| 10302_243_4212_34_2133/ | 2605_30_1704_3_3803/ | 5643_155_5529_51_3994/ |
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| 1673_17_1617_1_5833/ | 5120_141_5138_12_7342/ | 9769_227_4496_55_9381/ |
| 1674_17_4342_73_1992/ | 5121_141_7625_39_0392/ | 9771_227_7504_7_8611/ |
| 1675_17_4346_73_1992/ | 5122_141_7625_39_0389/ | 9774_227_5117_57_0464/ |
| 1678_17_22_13_3372/ | 5123_141_7625_39_0389/ | 9775_227_9604_-32_7158/ |
| 1679_17_22_13_3403/ | 5124_141_7625_39_0389/ | 9777_227_7662_18_0625/ |
| 167_3_2988_77_8131/ | 5126_141_8442_29_9039/ | 9781_227_8804_10_0275/ |
| 1680_17_22_13_3369/ | 5128_142_1579_60_4225/ | 9782_227_9992_-21_3172/ |
| 1687_17_3567_38_2794/ | 5130_141_9662_-20_5808/ | 9786_228_0658_2_0544/ |
| 1700_17_4379_-3_5425/ | 5131_142_3142_50_2264/ | 9787_228_0508_15_6739/ |
| 1708_17_555_-2_3314/ | 5132_142_7242_74_3347/ | 9792_228_21_-9_0997/ |
| 1729_17_7083_-7_6947/ | 5134_142_1808_11_5733/ | 9793_228_21_-9_0997/ |
| 1739_17_9054_39_1078/ | 5135_143_1675_79_1081/ | 9794_228_2104_-9_1/ |
| 1740_17_9054_39_1078/ | 5137_142_4217_38_6011/ | 9796_227_5958_70_7647/ |
| 1744_17_8754_5_6078/ | 5139_142_6567_49_8406/ | 9804_226_6025_83_3242/ |
| 1749_18_0125_49_4781/ | 5140_142_6567_49_84/ | 9806_228_4367_-10_2/ |
| 1753_17_9575_17_8975/ | 5141_142_6396_36_0236/ | 9807_228_3725_10_1847/ |
| 1754_17_8654_-38_0836/ | 5142_142_6396_36_0231/ | 9810_228_4167_26_125/ |
| 175_3_3792_40_8603/ | 5145_142_7367_39_5592/ | 9811_228_4167_26_125/ |
| 1760_18_0238_22_7439/ | 5146_142_6792_21_4886/ | 9818_228_6792_36_8472/ |
| 1763_18_0542_35_3719/ | 5147_142_7567_31_0431/ | 9824_229_1675_0_2506/ |
| 1764_18_0425_20_3392/ | 5150_142_7179_0_5831/ | 9825_229_1675_0_25/ |
| 176_3_3792_40_8603/ | 5153_143_1708_53_11/ | 9826_229_185_7_0214/ |
| 1773_18_21_32_1381/ | 5154_143_1712_53_1092/ | 9827_229_1854_7_0214/ |
| 177_3_3796_40_86/ | 5162_143_4054_28_7589/ | 9828_229_1854_7_0214/ |
| 1787_18_3621_49_8069/ | 5164_143_5654_49_1394/ | 982_13_3821_40_5236/ |
| 1788_18_3625_49_8064/ | 5167_143_4512_21_2461/ | 9831_229_2362_19_5364/ |
| 178_3_435_34_695/ | 5168_143_4421_10_1525/ | 9832_229_4238_-24_3719/ |
| 1792_18_3508_29_9711/ | 5169_144_8542_83_2569/ | 9833_229_4238_-24_3719/ |
| 1808_18_4587_-14_8458/ | 5177_143_9654_61_3533/ | 9834_229_4242_-24_3719/ |
| 1838_18_8208_-1_4511/ | 5180_143_8825_36_5542/ | 9859_229_5258_42_7458/ |
| 1839_18_8212_-1_4517/ | 5182_143_8258_2_0708/ | 9868_229_4479_65_4231/ |
| 1847_18_9425_25_3311/ | 5192_144_2546_1_0953/ | 9869_229_4479_65_4231/ |
| 1854_19_03_33_0894/ | 5210_144_9696_35_8992/ | 9878_230_0229_20_2686/ |
| 1864_19_0517_-11_6042/ | 5211_144_9696_35_8992/ | 9880_230_0637_17_4317/ |
| 1865_19_0521_-11_6039/ | 5212_144_9696_35_8994/ | 9887_230_1546_16_0239/ |
| 1873_19_0908_-47_3733/ | 5213_144_97_35_8994/ | 9897_230_3096_4_5058/ |
| 1877_19_1538_-34_9503/ | 5217_146_1708_82_9019/ | 9898_230_3096_4_5058/ |
| 187_3_7792_-0_1336/ | 521_10_5367_-44_2336/ | 9899_230_31_4_5061/ |
| 1882_19_2137_-20_8683/ | 5223_145_1854_21_2344/ | 9900_230_3188_2_6492/ |

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| 1883_19_2137_-20_8683/ | 5226_145_2671_38_8975/ | 9906_230_3096_22_4622/ |
| 1889_19_3592_7_7047/ | 5227_145_1521_3_5772/ | 9909_230_1817_47_5469/ |
| 1901_19_4354_-33_9517/ | 522_10_5375_-44_2339/ | 9917_230_6567_-27_5031/ |
| 1905_19_5771_2_9683/ | 5233_145_37_44_7953/ | 9918_230_6567_-27_5025/ |
| 1912_19_755_8_4986/ | 5234_145_3496_39_7447/ | 9924_230_62_-6_7447/ |
| 1913_19_755_8_4986/ | 5235_145_35_39_745/ | 9941_230_7288_34_2361/ |
| 1919_19_7388_-21_6917/ | 5237_145_3067_11_7592/ | 9942_230_1979_72_4181/ |
| 1922_19_8254_4_5783/ | 5238_145_3462_18_3517/ | 9943_230_1983_72_4183/ |
| 1924_19_8504_12_4467/ | 523_10_5392_-44_2375/ | 994_13_3954_12_6933/ |
| 1926_19_8954_32_1806/ | 5249_145_7121_27_6328/ | 9961_231_1738_15_3558/ |
| 1927_19_8958_32_1808/ | 5256_145_9038_-8_3253/ | 9967_231_2621_11_1289/ |
| 1941_19_9438_-17_7967/ | 5262_145_9587_-20_3256/ | 9968_231_0242_54_4692/ |
| 1955_20_1129_-15_3378/ | 5263_146_2183_52_0425/ | 996_13_435_29_4189/ |
| 1956_20_1129_-15_3381/ | 5264_146_0688_9_7711/ | 9973_231_7471_-13_85/ |
| 1957_20_1133_-15_3383/ | 5267_146_1762_25_9122/ | 9975_231_5254_41_6708/ |
| 1961_20_1312_-27_0233/ | 5277_146_4579_12_0919/ | 9976_231_6929_9_9861/ |
| 1962_20_1321_-27_0236/ | 5279_146_425_-14_3264/ | 9981_231_5725_48_0661/ |
| 1971_20_2558_3_7369/ | 528_10_6412_3_2564/ | 9985_231_8275_31_2567/ |
| 1979_20_4233_11_8306/ | 5290_146_7204_13_3275/ | 9986_231_9904_22_5511/ |
| 1980_20_4233_11_8303/ | 5291_147_2529_73_2297/ | 9991_232_3233_47_6439/ |
| 1988_20_4867_4_3733/ | 5296_146_9412_11_2317/ | 9995_232_665_33_9283/ |
| 1989_20_4871_4_3736/ | 5298_146_9375_7_42/ | 9996_232_8254_7_4578/ |
| 1992_20_4992_-1_04/ | 5299_146_9379_7_4222/ | 99_1_8629_2_6867/ |
| 199_4_1288_79_2806/ | 529_10_6879_41_2728/ | SEDtool/ |

In [17]: %ls work/AGN_all_radio_non_null/Results/SEDtool/

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| 0_08471_m32_34972_sedtool.txt | 228_43700_m10_20008_sedtool.txt |
| 0_27204_m15_85194_sedtool.txt | 228_67065_36_84985_sedtool.txt |
| 0_28596_19_24286_sedtool.txt | 229_16752_0_25059_sedtool.txt |
| 0_79004_21_96022_sedtool.txt | 229_18322_7_01895_sedtool.txt |
| 100_51762_67_97656_sedtool.txt | 229_23660_19_53692_sedtool.txt |
| 101_10529_m34_99497_sedtool.txt | 229_42438_m24_37222_sedtool.txt |
| 101_63371_44_85469_sedtool.txt | 229_44812_65_42322_sedtool.txt |
| 102_05879_m30_73867_sedtool.txt | 229_52556_42_74584_sedtool.txt |
| 102_11871_m17_73486_sedtool.txt | 22_49912_23_63872_sedtool.txt |
| 102_53596_60_84575_sedtool.txt | 22_83175_m40_76517_sedtool.txt |
| 102_63008_60_02906_sedtool.txt | 230_02285_20_26826_sedtool.txt |
| 102_69346_25_04992_sedtool.txt | 230_15442_16_02406_sedtool.txt |
| 103_05200_74_42694_sedtool.txt | 230_18167_47_54703_sedtool.txt |
| 103_49279_37_09461_sedtool.txt | 230_19775_72_41800_sedtool.txt |
| 103_81352_54_14921_sedtool.txt | 230_31904_2_64903_sedtool.txt |
| 104_90890_54_19654_sedtool.txt | 230_61982_m6_74495_sedtool.txt |
| 105_72471_68_68781_sedtool.txt | 230_65712_m27_50292_sedtool.txt |
| 106_68225_42_49878_sedtool.txt | 230_72867_34_23586_sedtool.txt |
| 106_88355_38_36999_sedtool.txt | 231_02350_54_47178_sedtool.txt |
| 107_10188_34_92839_sedtool.txt | 231_17323_15_35904_sedtool.txt |

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| 107_32392_74_82367_sedtool.txt | 231_26216_11_12899_sedtool.txt |
| 107_62568_59_13895_sedtool.txt | 231_52567_41_67066_sedtool.txt |
| 107_69210_47_53646_sedtool.txt | 231_58488_48_05253_sedtool.txt |
| 108_25333_11_76672_sedtool.txt | 231_69303_9_98618_sedtool.txt |
| 108_27807_36_93884_sedtool.txt | 231_82804_31_25678_sedtool.txt |
| 108_40904_43_82141_sedtool.txt | 231_99088_22_55025_sedtool.txt |
| 108_56290_45_69881_sedtool.txt | 232_82462_7_45778_sedtool.txt |
| 108_60339_35_57769_sedtool.txt | 232_85346_35_56078_sedtool.txt |
| 109_13038_m29_32431_sedtool.txt | 232_88975_72_11150_sedtool.txt |
| 109_16575_53_38752_sedtool.txt | 232_92796_24_07422_sedtool.txt |
| 109_21094_36_91012_sedtool.txt | 233_31167_13_54040_sedtool.txt |
| 109_46603_45_63429_sedtool.txt | 233_41573_35_74597_sedtool.txt |
| 109_50260_44_09086_sedtool.txt | 233_63497_15_19378_sedtool.txt |
| 109_51275_m26_13900_sedtool.txt | 233_71853_1_51786_sedtool.txt |
| 109_83089_33_11935_sedtool.txt | 233_73853_58_65654_sedtool.txt |
| 10_05625_40_83483_sedtool.txt | 233_73860_23_50315_sedtool.txt |
| 10_20979_10_05647_sedtool.txt | 233_75328_53_34369_sedtool.txt |
| 10_22921_33_16869_sedtool.txt | 233_96685_49_96092_sedtool.txt |
| 10_23847_m1_76804_sedtool.txt | 233_96842_57_90265_sedtool.txt |
| 10_35820_m1_72345_sedtool.txt | 234_19464_1_63327_sedtool.txt |
| 10_44517_m1_83371_sedtool.txt | 234_89510_47_59191_sedtool.txt |
| 10_46067_m38_33575_sedtool.txt | 235_06538_81_91822_sedtool.txt |
| 10_53742_m44_23347_sedtool.txt | 235_20622_14_79614_sedtool.txt |
| 10_69400_41_26967_sedtool.txt | 235_35593_53_80362_sedtool.txt |
| 10_78662_52_05956_sedtool.txt | 235_55789_18_58340_sedtool.txt |
| 10_84479_m26_65142_sedtool.txt | 236_07794_4_97271_sedtool.txt |
| 10_88629_0_41664_sedtool.txt | 236_18762_37_21916_sedtool.txt |
| 10_96338_m28_46081_sedtool.txt | 236_28550_47_86519_sedtool.txt |
| 10_98375_73_72922_sedtool.txt | 236_37433_48_77406_sedtool.txt |
| 110_47125_71_34353_sedtool.txt | 236_92732_20_86096_sedtool.txt |
| 110_97017_65_09067_sedtool.txt | 237_07468_35_19121_sedtool.txt |
| 111_54875_79_19183_sedtool.txt | 237_32270_50_63497_sedtool.txt |
| 111_76299_48_73616_sedtool.txt | 237_37270_2_61699_sedtool.txt |
| 112_04708_67_81308_sedtool.txt | 237_40226_18_58274_sedtool.txt |
| 112_20696_57_02342_sedtool.txt | 237_45487_21_42764_sedtool.txt |
| 112_71390_40_83075_sedtool.txt | 237_48907_62_69056_sedtool.txt |
| 113_33687_39_08455_sedtool.txt | 237_64694_5_45289_sedtool.txt |
| 113_74970_47_83266_sedtool.txt | 237_67343_11_34041_sedtool.txt |
| 113_79071_65_88594_sedtool.txt | 237_74550_m82_96856_sedtool.txt |
| 114_09083_65_22083_sedtool.txt | 237_99256_58_11233_sedtool.txt |
| 114_23404_58_77136_sedtool.txt | 238_03796_20_09674_sedtool.txt |
| 114_37571_59_68432_sedtool.txt | 238_38625_12_94769_sedtool.txt |
| 114_53076_17_70531_sedtool.txt | 238_51025_m27_07783_sedtool.txt |
| 114_73542_m67_59744_sedtool.txt | 238_60050_20_19034_sedtool.txt |
| 114_73821_m6_44936_sedtool.txt | 238_66362_19_78869_sedtool.txt |
| 114_82517_1_61792_sedtool.txt | 238_83646_m79_67733_sedtool.txt |
| 114_85054_70_38639_sedtool.txt | 238_92932_11_19023_sedtool.txt |
| 115_29204_31_20777_sedtool.txt | 239_24067_m79_23439_sedtool.txt |

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| 115_63690_49_80976_sedtool.txt | 239_36810_33_07943_sedtool.txt |
| 115_67358_65_17703_sedtool.txt | 239_37346_70_69328_sedtool.txt |
| 115_77400_80_42892_sedtool.txt | 239_46425_m0_03067_sedtool.txt |
| 115_79121_39_69189_sedtool.txt | 239_59146_m14_16647_sedtool.txt |
| 115_88596_m67_44128_sedtool.txt | 239_72983_33_38856_sedtool.txt |
| 115_93738_23_47750_sedtool.txt | 239_79012_35_02993_sedtool.txt |
| 116_02271_74_56614_sedtool.txt | 239_87909_3_08003_sedtool.txt |
| 116_05021_29_98525_sedtool.txt | 239_92242_m24_71069_sedtool.txt |
| 116_07278_37_88812_sedtool.txt | 23_18088_m16_91325_sedtool.txt |
| 116_21154_29_33772_sedtool.txt | 23_27342_m52_00158_sedtool.txt |
| 116_38792_10_18692_sedtool.txt | 23_35217_24_46186_sedtool.txt |
| 116_41924_31_71849_sedtool.txt | 23_37988_35_66819_sedtool.txt |
| 116_47542_m0_73839_sedtool.txt | 23_46971_1_22879_sedtool.txt |
| 116_49713_33_22626_sedtool.txt | 23_57571_m29_41875_sedtool.txt |
| 116_81083_76_65481_sedtool.txt | 23_89912_m38_90681_sedtool.txt |
| 117_15046_24_00670_sedtool.txt | 23_90625_m20_14608_sedtool.txt |
| 117_15356_55_81638_sedtool.txt | 240_07082_18_64172_sedtool.txt |
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| 118_70345_30_56531_sedtool.txt | 241_23399_m0_31861_sedtool.txt |
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| 119_50020_39_34141_sedtool.txt | 241_75733_85_03756_sedtool.txt |
| 119_60955_37_78915_sedtool.txt | 241_77387_15_85996_sedtool.txt |
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| 11_14322_12_19050_sedtool.txt | 242_19248_10_48547_sedtool.txt |
| 11_24223_10_45473_sedtool.txt | 242_29532_17_93762_sedtool.txt |
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| 11_88804_m25_28808_sedtool.txt | 243_42107_34_21329_sedtool.txt |
| 11_96408_m82_94706_sedtool.txt | 243_46155_37_71751_sedtool.txt |
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| 120_38961_14_24518_sedtool.txt | 243_55501_26_07113_sedtool.txt |
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| 121_10502_60_66805_sedtool.txt | 244_15638_4_99221_sedtool.txt |
| 121_12812_64_99819_sedtool.txt | 244_33678_5_44584_sedtool.txt |
| 121_19988_10_25636_sedtool.txt | 244_41204_35_01333_sedtool.txt |
| 121_36088_75_57367_sedtool.txt | 244_42384_32_36669_sedtool.txt |
| 121_38046_24_17258_sedtool.txt | 244_45550_m77_28794_sedtool.txt |
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| 122_06483_m7_85253_sedtool.txt | 244_76045_30_51430_sedtool.txt |

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| 122_41198_34_92698_sedtool.txt | 245_62315_35_51921_sedtool.txt |
| 122_45496_52_31617_sedtool.txt | 245_76850_66_40028_sedtool.txt |
| 122_50724_57_73034_sedtool.txt | 245_78167_39_15901_sedtool.txt |
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| 122_75392_76_04600_sedtool.txt | 245_94098_41_08241_sedtool.txt |
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| 123_40015_48_21716_sedtool.txt | 246_17653_37_44115_sedtool.txt |
| 123_53371_32_62794_sedtool.txt | 246_30932_26_84098_sedtool.txt |
| 123_58860_29_67256_sedtool.txt | 246_31039_15_75584_sedtool.txt |
| 123_84508_1_91811_sedtool.txt | 246_37854_27_09562_sedtool.txt |
| 123_85813_36_58759_sedtool.txt | 246_44533_m25_46064_sedtool.txt |
| 124_39537_22_62470_sedtool.txt | 246_48310_41_57811_sedtool.txt |
| 124_56670_42_37934_sedtool.txt | 246_52496_m29_85744_sedtool.txt |
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| 125_23950_m12_98294_sedtool.txt | 246_60773_35_22821_sedtool.txt |
| 125_39006_47_04160_sedtool.txt | 247_01698_51_77538_sedtool.txt |
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| 126_17548_3_00824_sedtool.txt | 247_85295_42_28402_sedtool.txt |
| 126_19683_55_87854_sedtool.txt | 247_93858_11_93422_sedtool.txt |
| 126_23115_39_27827_sedtool.txt | 248_10892_82_53897_sedtool.txt |
| 126_31998_44_61008_sedtool.txt | 248_16392_78_19803_sedtool.txt |
| 126_38829_61_95064_sedtool.txt | 248_25873_39_40767_sedtool.txt |
| 126_44739_27_07275_sedtool.txt | 248_34827_47_31638_sedtool.txt |
| 126_45976_3_15679_sedtool.txt | 248_57954_70_51869_sedtool.txt |
| 126_50662_m22_50756_sedtool.txt | 248_79399_58_81035_sedtool.txt |
| 126_77712_10_87339_sedtool.txt | 248_81451_38_13460_sedtool.txt |
| 126_82212_m20_43969_sedtool.txt | 248_91317_18_51769_sedtool.txt |
| 126_91079_35_41811_sedtool.txt | 249_13854_26_80528_sedtool.txt |
| 127_71470_24_18679_sedtool.txt | 249_28885_41_67518_sedtool.txt |
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| 204_56525_4_54876_sedtool.txt | 51_99967_m22_03511_sedtool.txt |
| 204_57209_48_27588_sedtool.txt | 52_34954_39_79239_sedtool.txt |
| 204_70777_38_85172_sedtool.txt | 52_47533_m23_95269_sedtool.txt |
| 204_84908_63_48289_sedtool.txt | 52_49029_27_93764_sedtool.txt |
| 204_88655_m0_27313_sedtool.txt | 52_61350_41_02836_sedtool.txt |
| 204_98300_m31_64097_sedtool.txt | 52_71743_5_64055_sedtool.txt |
| 205_01921_m1_62958_sedtool.txt | 52_77662_m38_40161_sedtool.txt |
| 205_09567_37_91217_sedtool.txt | 52_78721_m25_41200_sedtool.txt |
| 205_27138_39_99601_sedtool.txt | 53_18329_m44_93272_sedtool.txt |
| 205_27554_67_67247_sedtool.txt | 53_30225_m36_32986_sedtool.txt |
| 205_28365_39_24647_sedtool.txt | 53_40192_m36_14053_sedtool.txt |
| 205_29641_30_37812_sedtool.txt | 53_41562_m5_08956_sedtool.txt |
| 205_52733_5_09005_sedtool.txt | 53_55650_m40_14075_sedtool.txt |
| 205_53478_35_65429_sedtool.txt | 53_56983_39_34431_sedtool.txt |
| 205_53492_27_15853_sedtool.txt | 53_72217_8_00400_sedtool.txt |
| 205_54373_28_46952_sedtool.txt | 54_12550_32_30811_sedtool.txt |
| 205_68172_5_07473_sedtool.txt | 54_19258_m35_99925_sedtool.txt |
| 205_72350_28_46503_sedtool.txt | 54_22504_m36_26808_sedtool.txt |
| 205_75050_28_73528_sedtool.txt | 54_48138_m12_06783_sedtool.txt |
| 205_94146_66_04047_sedtool.txt | 54_68150_m35_39075_sedtool.txt |

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| 206_03617_66_10322_sedtool.txt | 54_74658_m43_82342_sedtool.txt |
| 206_17566_55_88700_sedtool.txt | 54_75392_m1_55497_sedtool.txt |
| 206_40395_38_38684_sedtool.txt | 54_87892_m1_77661_sedtool.txt |
| 206_53654_73_34897_sedtool.txt | 55_14842_m21_32547_sedtool.txt |
| 206_76811_11_10629_sedtool.txt | 55_51329_m21_24719_sedtool.txt |
| 206_88907_12_29003_sedtool.txt | 55_52250_m37_05581_sedtool.txt |
| 206_90604_30_21448_sedtool.txt | 55_87063_36_37011_sedtool.txt |
| 206_91318_58_21149_sedtool.txt | 55_87281_4_96184_sedtool.txt |
| 207_01797_28_67373_sedtool.txt | 56_62742_m34_37950_sedtool.txt |
| 207_06312_m42_17264_sedtool.txt | 56_91748_1_08729_sedtool.txt |
| 207_21864_26_59273_sedtool.txt | 57_15908_m27_82064_sedtool.txt |
| 207_33012_m30_30936_sedtool.txt | 57_31417_m24_02067_sedtool.txt |
| 207_38083_m11_54842_sedtool.txt | 57_34392_m11_98733_sedtool.txt |
| 207_39460_53_68799_sedtool.txt | 57_79562_m11_88961_sedtool.txt |
| 207_47021_2_07930_sedtool.txt | 57_97829_m37_06158_sedtool.txt |
| 207_56267_38_20189_sedtool.txt | 58_12511_m7_18405_sedtool.txt |
| 207_63488_38_98969_sedtool.txt | 58_60425_m16_27292_sedtool.txt |
| 207_76863_0_52207_sedtool.txt | 58_69258_80_15811_sedtool.txt |
| 208_07434_31_44624_sedtool.txt | 58_70812_m38_16536_sedtool.txt |
| 208_23508_m44_21122_sedtool.txt | 58_72962_72_91097_sedtool.txt |
| 208_26617_69_30797_sedtool.txt | 58_99729_2_94014_sedtool.txt |
| 208_31600_63_76269_sedtool.txt | 59_15646_20_83669_sedtool.txt |
| 208_32415_33_49084_sedtool.txt | 59_34092_m48_20397_sedtool.txt |
| 208_36684_56_01582_sedtool.txt | 59_43038_m7_85406_sedtool.txt |
| 208_39969_26_52987_sedtool.txt | 59_72329_10_42889_sedtool.txt |
| 208_46496_1_86480_sedtool.txt | 5_60592_0_24891_sedtool.txt |
| 208_52677_23_43033_sedtool.txt | 5_92904_5_87517_sedtool.txt |
| 208_52871_m2_10093_sedtool.txt | 60_28179_0_60919_sedtool.txt |
| 208_69554_m10_68400_sedtool.txt | 60_58854_m31_79078_sedtool.txt |
| 208_92108_40_46353_sedtool.txt | 60_77321_26_00028_sedtool.txt |
| 208_92130_30_40333_sedtool.txt | 60_97412_m36_08381_sedtool.txt |
| 208_97303_38_57459_sedtool.txt | 61_39142_m13_13733_sedtool.txt |
| 209_01192_18_37194_sedtool.txt | 61_45512_38_05911_sedtool.txt |
| 209_26685_19_32277_sedtool.txt | 61_55096_m17_83275_sedtool.txt |
| 209_27525_m17_73386_sedtool.txt | 61_74575_m38_44117_sedtool.txt |
| 209_27673_25_62388_sedtool.txt | 61_82583_m44_17053_sedtool.txt |
| 209_29700_m15_45819_sedtool.txt | 61_95183_m12_19261_sedtool.txt |
| 209_41912_43_89994_sedtool.txt | 62_20196_m75_12222_sedtool.txt |
| 209_48100_76_72247_sedtool.txt | 62_27400_m12_64669_sedtool.txt |
| 209_56629_57_87193_sedtool.txt | 62_34175_12_29422_sedtool.txt |
| 209_66946_47_63286_sedtool.txt | 62_41896_m19_80050_sedtool.txt |
| 209_74304_m41_87686_sedtool.txt | 63_18167_23_08503_sedtool.txt |
| 209_85740_2_00205_sedtool.txt | 63_41329_11_21286_sedtool.txt |
| 209_97490_59_18254_sedtool.txt | 63_72025_m7_92728_sedtool.txt |
| 20_13208_m27_02353_sedtool.txt | 63_78846_m29_48500_sedtool.txt |
| 20_25042_3_73900_sedtool.txt | 64_01804_m20_94108_sedtool.txt |
| 20_41737_m63_15006_sedtool.txt | 64_15246_m18_85233_sedtool.txt |
| 20_42333_11_83065_sedtool.txt | 64_22033_1_09069_sedtool.txt |

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| 20_48691_4_37346_sedtool.txt | 64_32062_m5_89739_sedtool.txt |
| 20_49922_m1_04015_sedtool.txt | 64_58733_38_03017_sedtool.txt |
| 20_61634_m4_35755_sedtool.txt | 65_00504_m54_93711_sedtool.txt |
| 20_66171_25_04217_sedtool.txt | 65_56183_m38_74769_sedtool.txt |
| 20_78562_34_34653_sedtool.txt | 65_57638_19_84883_sedtool.txt |
| 20_97738_m35_06597_sedtool.txt | 65_71750_2_32425_sedtool.txt |
| 210_11956_62_17734_sedtool.txt | 65_81583_m1_34233_sedtool.txt |
| 210_35638_m12_20739_sedtool.txt | 66_03567_2_07361_sedtool.txt |
| 210_50996_m28_37364_sedtool.txt | 66_17662_m37_93931_sedtool.txt |
| 210_68327_16_00086_sedtool.txt | 66_19517_0_60186_sedtool.txt |
| 211_04413_9_62929_sedtool.txt | 66_46375_m8_56022_sedtool.txt |
| 211_19125_m1_50611_sedtool.txt | 66_78042_m13_04847_sedtool.txt |
| 211_21210_4_03396_sedtool.txt | 67_01929_m47_90486_sedtool.txt |
| 211_25464_4_25996_sedtool.txt | 67_16842_m37_93881_sedtool.txt |
| 211_31748_25_92637_sedtool.txt | 67_26058_m53_82772_sedtool.txt |
| 211_50283_m8_80175_sedtool.txt | 67_76575_20_62617_sedtool.txt |
| 211_58917_22_39564_sedtool.txt | 68_08717_m51_15792_sedtool.txt |
| 211_65342_78_46964_sedtool.txt | 68_15171_41_64142_sedtool.txt |
| 211_75165_28_45411_sedtool.txt | 68_28154_5_35150_sedtool.txt |
| 211_97879_m34_52453_sedtool.txt | 68_50008_m8_57919_sedtool.txt |
| 212_20646_m29_00636_sedtool.txt | 69_09308_m10_37575_sedtool.txt |
| 212_23524_m7_87417_sedtool.txt | 69_25617_m18_74683_sedtool.txt |
| 212_34590_59_65858_sedtool.txt | 69_26904_29_67061_sedtool.txt |
| 212_34960_26_30583_sedtool.txt | 69_40246_m29_90147_sedtool.txt |
| 212_51942_2_05192_sedtool.txt | 69_64600_m12_85094_sedtool.txt |
| 212_70638_1_85964_sedtool.txt | 69_75375_m45_37308_sedtool.txt |
| 212_83580_52_20264_sedtool.txt | 6_12550_m29_48025_sedtool.txt |
| 212_98018_34_25289_sedtool.txt | 6_17908_m42_03442_sedtool.txt |
| 213_31199_m3_20766_sedtool.txt | 6_35900_39_32650_sedtool.txt |
| 213_45139_44_00386_sedtool.txt | 6_67383_35_14508_sedtool.txt |
| 213_86858_37_10589_sedtool.txt | 6_81417_22_69956_sedtool.txt |
| 213_94272_11_49547_sedtool.txt | 70_07112_m43_55250_sedtool.txt |
| 213_99509_13_33995_sedtool.txt | 70_17900_m16_48739_sedtool.txt |
| 214_17638_m21_53183_sedtool.txt | 70_24746_m10_74342_sedtool.txt |
| 214_21613_10_80125_sedtool.txt | 70_32150_m43_22944_sedtool.txt |
| 214_24061_34_47961_sedtool.txt | 70_65692_m28_42517_sedtool.txt |
| 214_27932_46_11742_sedtool.txt | 70_66092_m0_29522_sedtool.txt |
| 214_33784_26_85745_sedtool.txt | 71_15104_m28_15619_sedtool.txt |
| 214_47981_25_72260_sedtool.txt | 71_42613_m59_24692_sedtool.txt |
| 214_48193_25_13566_sedtool.txt | 71_44042_78_64906_sedtool.txt |
| 214_51574_17_05675_sedtool.txt | 71_76867_73_32686_sedtool.txt |
| 214_78417_6_47632_sedtool.txt | 71_84283_m5_13058_sedtool.txt |
| 214_94418_54_38744_sedtool.txt | 72_09058_9_84764_sedtool.txt |
| 214_94422_38_36351_sedtool.txt | 72_15442_m6_32028_sedtool.txt |
| 214_95688_m19_47642_sedtool.txt | 72_24496_m20_74592_sedtool.txt |
| 215_30865_28_41451_sedtool.txt | 72_28188_11_35783_sedtool.txt |
| 215_35700_39_72470_sedtool.txt | 72_33812_7_48625_sedtool.txt |
| 215_37136_31_31653_sedtool.txt | 72_34708_63_53594_sedtool.txt |

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| 215_62656_32_38625_sedtool.txt | 72_42621_m39_18589_sedtool.txt |
| 215_66186_58_03205_sedtool.txt | 72_52096_m81_01761_sedtool.txt |
| 215_70379_m27_46600_sedtool.txt | 72_52475_45_05131_sedtool.txt |
| 215_75338_19_58967_sedtool.txt | 72_64958_m18_61678_sedtool.txt |
| 215_77567_48_03633_sedtool.txt | 72_90367_m18_31308_sedtool.txt |
| 215_80912_50_92712_sedtool.txt | 73_18662_m22_02175_sedtool.txt |
| 215_85864_32_87232_sedtool.txt | 73_18721_m3_21686_sedtool.txt |
| 215_87542_11_99756_sedtool.txt | 73_31112_m28_12683_sedtool.txt |
| 216_15876_22_93349_sedtool.txt | 73_40263_m51_50594_sedtool.txt |
| 216_23702_20_00793_sedtool.txt | 73_84862_m20_57050_sedtool.txt |
| 216_45425_14_41581_sedtool.txt | 73_96058_m46_26661_sedtool.txt |
| 216_45967_24_06546_sedtool.txt | 74_03112_m21_98247_sedtool.txt |
| 216_75062_m25_66856_sedtool.txt | 74_17929_22_82281_sedtool.txt |
| 216_75173_23_80003_sedtool.txt | 74_19654_4_01478_sedtool.txt |
| 216_88367_26_52964_sedtool.txt | 74_26325_m23_41444_sedtool.txt |
| 216_90229_m12_05992_sedtool.txt | 74_96688_2_49200_sedtool.txt |
| 216_98425_m42_10517_sedtool.txt | 75_30338_m1_98689_sedtool.txt |
| 217_13233_27_40894_sedtool.txt | 75_53775_3_53000_sedtool.txt |
| 217_13594_42_67255_sedtool.txt | 75_77300_65_56706_sedtool.txt |
| 217_27717_1_28496_sedtool.txt | 75_83833_2_05128_sedtool.txt |
| 217_34121_54_10304_sedtool.txt | 76_23117_m27_38669_sedtool.txt |
| 217_54052_10_72412_sedtool.txt | 76_45400_m28_59097_sedtool.txt |
| 218_16593_36_30225_sedtool.txt | 76_46333_m4_32383_sedtool.txt |
| 218_16904_m44_17433_sedtool.txt | 76_68229_m61_16153_sedtool.txt |
| 218_18141_m0_98429_sedtool.txt | 76_92662_m37_51283_sedtool.txt |
| 218_24071_m18_02617_sedtool.txt | 76_98271_67_62333_sedtool.txt |
| 218_46788_5_45842_sedtool.txt | 77_17788_84_53475_sedtool.txt |
| 218_98621_17_49217_sedtool.txt | 77_40904_m4_01222_sedtool.txt |
| 219_09197_58_79434_sedtool.txt | 78_18062_m48_40744_sedtool.txt |
| 219_18379_63_60795_sedtool.txt | 78_45475_m21_98769_sedtool.txt |
| 219_24029_56_65687_sedtool.txt | 78_55054_0_94697_sedtool.txt |
| 219_34169_36_56781_sedtool.txt | 78_93692_m45_94561_sedtool.txt |
| 219_38921_38_12919_sedtool.txt | 79_04762_m0_15006_sedtool.txt |
| 219_41458_31_31694_sedtool.txt | 79_06679_m16_05236_sedtool.txt |
| 219_45114_m1_78640_sedtool.txt | 79_96450_m45_78269_sedtool.txt |
| 219_45245_24_65195_sedtool.txt | 7_30746_13_26767_sedtool.txt |
| 219_48479_35_32792_sedtool.txt | 7_30908_34_94228_sedtool.txt |
| 219_50283_17_01570_sedtool.txt | 7_57292_m42_41317_sedtool.txt |
| 219_53971_m22_08175_sedtool.txt | 7_86696_m41_13786_sedtool.txt |
| 219_54496_m31_37458_sedtool.txt | 80_25575_m25_36250_sedtool.txt |
| 219_68651_62_19837_sedtool.txt | 80_29138_16_63950_sedtool.txt |
| 219_82291_39_54524_sedtool.txt | 80_64204_m61_13289_sedtool.txt |
| 21_11108_33_79883_sedtool.txt | 80_74179_m36_45833_sedtool.txt |
| 21_11204_11_09331_sedtool.txt | 81_05596_70_58136_sedtool.txt |
| 21_14187_m4_01512_sedtool.txt | 81_38038_m45_96539_sedtool.txt |
| 21_14542_3_79154_sedtool.txt | 82_53238_79_34850_sedtool.txt |
| 21_18550_9_31369_sedtool.txt | 82_53325_m25_05833_sedtool.txt |
| 21_18858_32_16581_sedtool.txt | 82_73517_13_53203_sedtool.txt |

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| 21_18946_32_13461_sedtool.txt | 84_09292_m20_09206_sedtool.txt |
| 21_32163_m0_30826_sedtool.txt | 84_70496_m44_07061_sedtool.txt |
| 21_37021_m0_09889_sedtool.txt | 84_88342_m15_84161_sedtool.txt |
| 21_38125_32_13506_sedtool.txt | 84_97629_m28_66558_sedtool.txt |
| 21_50254_m1_34792_sedtool.txt | 85_31729_53_20686_sedtool.txt |
| 21_56246_m22_37578_sedtool.txt | 85_40875_m5_69719_sedtool.txt |
| 21_67825_25_98350_sedtool.txt | 85_51883_69_37628_sedtool.txt |
| 21_76967_73_38686_sedtool.txt | 85_65062_49_85214_sedtool.txt |
| 21_81042_m41_21261_sedtool.txt | 87_66654_m32_27572_sedtool.txt |
| 21_93350_m34_96575_sedtool.txt | 88_04725_m7_45628_sedtool.txt |
| 220_09304_38_33711_sedtool.txt | 88_22083_72_67919_sedtool.txt |
| 220_15876_53_50438_sedtool.txt | 88_72362_46_43942_sedtool.txt |
| 220_34983_m34_94611_sedtool.txt | 88_82817_m20_49878_sedtool.txt |
| 220_53114_35_43973_sedtool.txt | 88_87833_39_81350_sedtool.txt |
| 220_70113_12_01121_sedtool.txt | 89_52542_m38_64153_sedtool.txt |
| 220_75422_52_02800_sedtool.txt | 89_91779_m16_86917_sedtool.txt |
| 220_81083_77_12411_sedtool.txt | 89_94729_m50_44833_sedtool.txt |
| 220_99425_63_54069_sedtool.txt | 8_96929_59_83489_sedtool.txt |
| 221_14531_63_60169_sedtool.txt | 8_98121_15_88797_sedtool.txt |
| 221_21138_11_53233_sedtool.txt | 91_06096_m31_93239_sedtool.txt |
| 221_31868_9_97675_sedtool.txt | 91_14846_44_23292_sedtool.txt |
| 221_71342_21_53094_sedtool.txt | 91_96950_67_34878_sedtool.txt |
| 222_06283_m16_34003_sedtool.txt | 91_99892_m8_58061_sedtool.txt |
| 222_11992_76_01983_sedtool.txt | 92_24875_m22_33942_sedtool.txt |
| 222_33630_42_35039_sedtool.txt | 92_38554_48_07117_sedtool.txt |
| 222_34080_63_27063_sedtool.txt | 92_42083_m15_71125_sedtool.txt |
| 222_76046_m23_49197_sedtool.txt | 92_70362_72_81478_sedtool.txt |
| 222_78669_27_15743_sedtool.txt | 93_43112_71_12422_sedtool.txt |
| 222_94708_m1_45638_sedtool.txt | 93_45562_26_07706_sedtool.txt |
| 223_09445_45_37723_sedtool.txt | 93_59946_60_77272_sedtool.txt |
| 223_19739_47_59141_sedtool.txt | 93_90108_71_03753_sedtool.txt |
| 223_60625_m37_79397_sedtool.txt | 94_62825_m78_71761_sedtool.txt |
| 223_63465_29_93291_sedtool.txt | 94_65712_78_35664_sedtool.txt |
| 223_63708_m40_20903_sedtool.txt | 95_13379_m25_25486_sedtool.txt |
| 223_97304_m11_13694_sedtool.txt | 95_42833_m52_69128_sedtool.txt |
| 224_01510_50_80721_sedtool.txt | 95_78163_m64_60619_sedtool.txt |
| 224_78179_71_67219_sedtool.txt | 95_88200_m44_21722_sedtool.txt |
| 225_25765_22_63514_sedtool.txt | 95_90821_m52_96583_sedtool.txt |
| 225_87041_4_33029_sedtool.txt | 96_07917_38_94686_sedtool.txt |
| 226_03846_60_01542_sedtool.txt | 96_51192_82_04050_sedtool.txt |
| 226_05212_68_93744_sedtool.txt | 96_58954_m53_68589_sedtool.txt |
| 226_10407_10_49412_sedtool.txt | 96_76200_m35_48669_sedtool.txt |
| 226_23800_26_01621_sedtool.txt | 97_34908_m19_98878_sedtool.txt |
| 226_27695_3_44190_sedtool.txt | 97_79996_m41_90747_sedtool.txt |
| 226_53981_37_51415_sedtool.txt | 98_41183_17_99261_sedtool.txt |
| 226_60300_83_32444_sedtool.txt | 98_93771_m75_27092_sedtool.txt |
| 226_71371_42_65580_sedtool.txt | 99_84121_73_41619_sedtool.txt |

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226_77000_m16_87506_sedtool.txt  9_02729_18_63306_sedtool.txt
227_09887_33_78351_sedtool.txt  9_21800_m33_55350_sedtool.txt
227_44978_55_93813_sedtool.txt  9_26517_m1_14806_sedtool.txt
227_51235_57_04545_sedtool.txt  9_40300_39_63678_sedtool.txt
227_60025_70_75908_sedtool.txt  9_44225_36_98642_sedtool.txt
227_72330_m5_71858_sedtool.txt  9_49296_24_11989_sedtool.txt
227_96004_m32_71533_sedtool.txt  9_56142_m24_98389_sedtool.txt
227_99925_m21_31669_sedtool.txt  9_58360_m2_12588_sedtool.txt
228_06390_2_05797_sedtool.txt   9_60346_41_61839_sedtool.txt
228_21058_m9_10025_sedtool.txt  9_61204_m38_99617_sedtool.txt

```

1.3 Recover results

To read the resulting SEDs, for each object, we may have to do some small processing on the RA/Dec values of each object to properly relate to the data/SED files. The reason is the name convention used in the output files: * directories in Results/ are named after the given/input RA and Dec values; on the other hand, * directories in Results/SEDtool/ are named after the object's (assumed) Radio source position.

To correlate those results to the original table, we may simply parse the (file/directory) in hands and truncate the decimal part to – say – 2 digits.

```

In [18]: ra_s1 = agns[col['ra']].astype(str)
         ra_s1 = [s.split('.') for s in ra_s1]
         ra_s1 = ['_'.join([l[0],l[1][:3]]) for l in ra_s1]

         dec_s1 = agns[col['dec']].astype(str)
         dec_s1 = [s.split('.') for s in dec_s1]
         dec_s1 = ['_'.join([l[0],l[1][:3]]).replace('-', 'm') for l in dec_s1]

         ids = agns['label']

In [19]: from os import path
         from glob import glob
         seds = [path.basename(p) for p in glob('work/AGN_all_radio_non_null/Results/SEDtool/*')]
         seds_filename = seds[:]

         seds = [s.replace('_sedtool.txt', '') for s in seds]

         seds = [s.split('_') for s in seds]

         ra_s2 = ['_'.join([l[0],l[1][:3]]) for l in seds]

         dec_s2 = ['_'.join([l[2],l[3][:3]]) for l in seds]

In [20]: df1 = pd.DataFrame(data={'ra_1':ra_s1, 'dec_1':dec_s1, 'ids':ids})

         df2 = pd.DataFrame(data={'ra_2':ra_s2, 'dec_2':dec_s2, 'filenames':seds_filename})

```

```
In [21]: df1.head()
```

```
Out[21]:
```

| | ra_1 | dec_1 | ids |
|---|---------|---------|------------------------|
| 0 | 299_867 | 40_733 | 11139_299_8679_40_7339 |
| 1 | 187_705 | 12_390 | 7330_187_7054_12_3908 |
| 2 | 50_672 | m37_209 | 3556_50_6725_-37_2092 |
| 3 | 50_671 | m37_207 | 3555_50_6717_-37_2075 |
| 4 | 49_950 | 41_511 | 3535_49_9504_41_5117 |

```
In [22]: df2.head()
```

```
Out[22]:
```

| | ra_2 | dec_2 | filenames |
|---|---------|---------|--------------------------------|
| 0 | 0_084 | m32_349 | 0_08471_m32_34972_sedtool.txt |
| 1 | 0_272 | m15_851 | 0_27204_m15_85194_sedtool.txt |
| 2 | 0_285 | 19_242 | 0_28596_19_24286_sedtool.txt |
| 3 | 0_790 | 21_960 | 0_79004_21_96022_sedtool.txt |
| 4 | 100_517 | 67_976 | 100_51762_67_97656_sedtool.txt |

```
In [23]: df1['radec1'] = df1.apply(lambda x: '_'.join([x['ra_1'],x['dec_1']]), axis=1)
# df1.sort_values(['ra_1','dec_1'], inplace=True)
```

```
In [24]: df2['radec2'] = df2.apply(lambda x: '_'.join([x['ra_2'],x['dec_2']]), axis=1)
# df2.sort_values(['ra_2','dec_2'], inplace=True)
```

```
In [25]: df3 = df1.merge(df2, left_on='radec1', right_on='radec2', how='inner')
df3
```

```
Out[25]:
```

| | ra_1 | dec_1 | ids | radec1 | ra_2 \ |
|----|---------|---------|-------------------------|-----------------|---------|
| 0 | 49_950 | 41_511 | 3535_49_9504_41_5117 | 49_950_41_511 | 49_950 |
| 1 | 49_950 | 41_511 | 3536_49_9504_41_5117 | 49_950_41_511 | 49_950 |
| 2 | 49_950 | 41_511 | 3537_49_9504_41_5117 | 49_950_41_511 | 49_950 |
| 3 | 343_490 | 16_148 | 12799_343_4904_16_1481 | 343_490_16_148 | 343_490 |
| 4 | 343_490 | 16_148 | 12798_343_4904_16_1481 | 343_490_16_148 | 343_490 |
| 5 | 343_490 | 16_148 | 12797_343_4904_16_1481 | 343_490_16_148 | 343_490 |
| 6 | 324_160 | 0_698 | 11775_324_1604_0_6983 | 324_160_0_698 | 324_160 |
| 7 | 324_160 | 0_698 | 11776_324_1604_0_6983 | 324_160_0_698 | 324_160 |
| 8 | 80_741 | m36_458 | 4187_80_7413_-36_4583 | 80_741_m36_458 | 80_741 |
| 9 | 80_741 | m36_458 | 4189_80_7413_-36_4583 | 80_741_m36_458 | 80_741 |
| 10 | 80_741 | m36_458 | 4188_80_7413_-36_4583 | 80_741_m36_458 | 80_741 |
| 11 | 141_762 | 39_039 | 5121_141_7625_39_0392 | 141_762_39_039 | 141_762 |
| 12 | 172_529 | m14_824 | 6370_172_5292_-14_8242 | 172_529_m14_824 | 172_529 |
| 13 | 172_529 | m14_824 | 6371_172_5292_-14_8242 | 172_529_m14_824 | 172_529 |
| 14 | 70_071 | m43_552 | 3992_70_0712_-43_5522 | 70_071_m43_552 | 70_071 |
| 15 | 70_071 | m43_552 | 3994_70_0717_-43_5525 | 70_071_m43_552 | 70_071 |
| 16 | 212_835 | 52_202 | 9229_212_8354_52_2022 | 212_835_52_202 | 212_835 |
| 17 | 212_835 | 52_202 | 9227_212_8354_52_2025 | 212_835_52_202 | 212_835 |
| 18 | 212_835 | 52_202 | 9228_212_8354_52_2022 | 212_835_52_202 | 212_835 |
| 19 | 294_854 | m63_712 | 11096_294_8542_-63_7128 | 294_854_m63_712 | 294_854 |
| 20 | 277_382 | 48_746 | 10984_277_3821_48_7461 | 277_382_48_746 | 277_382 |

| | | | | | |
|------|---------|--------|------------------------|----------------|---------|
| 21 | 277_382 | 48_746 | 10985_277_3821_48_7461 | 277_382_48_746 | 277_382 |
| 22 | 277_382 | 48_746 | 10986_277_3821_48_7461 | 277_382_48_746 | 277_382 |
| 23 | 277_382 | 48_746 | 10987_277_3825_48_7461 | 277_382_48_746 | 277_382 |
| 24 | 88_878 | 39_813 | 4260_88_8783_39_8136 | 88_878_39_813 | 88_878 |
| 25 | 24_421 | 33_159 | 2290_24_4217_33_1597 | 24_421_33_159 | 24_421 |
| 26 | 24_421 | 33_159 | 2291_24_4217_33_1597 | 24_421_33_159 | 24_421 |
| 27 | 327_022 | 6_960 | 11952_327_0229_6_9608 | 327_022_6_960 | 327_022 |
| 28 | 327_022 | 6_960 | 11951_327_0225_6_9606 | 327_022_6_960 | 327_022 |
| 29 | 327_022 | 6_960 | 11950_327_0225_6_9606 | 327_022_6_960 | 327_022 |
| ... | ... | ... | ... | ... | ... |
| 1085 | 169_786 | 21_321 | 6285_169_7867_21_3217 | 169_786_21_321 | 169_786 |
| 1086 | 13_395 | 12_693 | 994_13_3954_12_6933 | 13_395_12_693 | 13_395 |
| 1087 | 211_044 | 9_629 | 9152_211_0442_9_6294 | 211_044_9_629 | 211_044 |
| 1088 | 213_942 | 11_495 | 9258_213_9429_11_4956 | 213_942_11_495 | 213_942 |
| 1089 | 189_914 | m5_344 | 7581_189_9142_-5_3442 | 189_914_m5_344 | 189_914 |
| 1090 | 1_862 | 2_686 | 99_1_8629_2_6867 | 1_862_2_686 | 1_862 |
| 1091 | 208_324 | 33_490 | 9042_208_3242_33_4908 | 208_324_33_490 | 208_324 |
| 1092 | 108_562 | 45_698 | 4402_108_5629_45_6989 | 108_562_45_698 | 108_562 |
| 1093 | 201_082 | 5_618 | 8442_201_0829_5_6181 | 201_082_5_618 | 201_082 |
| 1094 | 141_303 | 52_286 | 5106_141_3037_52_2864 | 141_303_52_286 | 141_303 |
| 1095 | 323_115 | 10_138 | 11683_323_1158_10_1386 | 323_115_10_138 | 323_115 |
| 1096 | 179_117 | 55_125 | 6719_179_1171_55_125 | 179_117_55_125 | 179_117 |
| 1097 | 31_957 | 2_715 | 2674_31_9575_2_7153 | 31_957_2_715 | 31_957 |
| 1098 | 21_185 | 9_313 | 2070_21_1854_9_3136 | 21_185_9_313 | 21_185 |
| 1099 | 1_791 | 0_891 | 94_1_7917_0_8914 | 1_791_0_891 | 1_791 |
| 1100 | 212_706 | 1_859 | 9212_212_7062_1_8594 | 212_706_1_859 | 212_706 |
| 1101 | 211_317 | 25_926 | 9162_211_3175_25_9261 | 211_317_25_926 | 211_317 |
| 1102 | 208_526 | 23_430 | 9055_208_5267_23_4303 | 208_526_23_430 | 208_526 |
| 1103 | 205_534 | 35_654 | 8822_205_5346_35_6542 | 205_534_35_654 | 205_534 |
| 1104 | 213_451 | 44_003 | 9243_213_4512_44_0039 | 213_451_44_003 | 213_451 |
| 1105 | 220_531 | 35_439 | 9537_220_5312_35_4397 | 220_531_35_439 | 220_531 |
| 1106 | 239_790 | 35_029 | 10189_239_79_35_0297 | 239_790_35_029 | 239_790 |
| 1107 | 222_786 | 27_157 | 9640_222_7867_27_1575 | 222_786_27_157 | 222_786 |
| 1108 | 125_653 | 54_310 | 4641_125_6533_54_3103 | 125_653_54_310 | 125_653 |
| 1109 | 53_415 | m5_089 | 3610_53_4154_-5_0894 | 53_415_m5_089 | 53_415 |
| 1110 | 153_728 | 0_560 | 5571_153_7288_0_5603 | 153_728_0_560 | 153_728 |
| 1111 | 186_453 | 33_546 | 7228_186_4538_33_5469 | 186_453_33_546 | 186_453 |
| 1112 | 183_573 | 14_053 | 6963_183_5738_14_0536 | 183_573_14_053 | 183_573 |
| 1113 | 177_835 | 54_625 | 6649_177_8354_54_6258 | 177_835_54_625 | 177_835 |
| 1114 | 170_446 | 11_738 | 6306_170_4462_11_7386 | 170_446_11_738 | 170_446 |

| | dec_2 | filenames | radec2 |
|---|--------|--------------------------------|----------------|
| 0 | 41_511 | 49_95067_41_51169_sedtool.txt | 49_950_41_511 |
| 1 | 41_511 | 49_95067_41_51169_sedtool.txt | 49_950_41_511 |
| 2 | 41_511 | 49_95067_41_51169_sedtool.txt | 49_950_41_511 |
| 3 | 16_148 | 343_49042_16_14817_sedtool.txt | 343_490_16_148 |
| 4 | 16_148 | 343_49042_16_14817_sedtool.txt | 343_490_16_148 |
| 5 | 16_148 | 343_49042_16_14817_sedtool.txt | 343_490_16_148 |

| | | | |
|------|---------|---------------------------------|-----------------|
| 6 | 0_698 | 324_16074_0_69843_sedtool.txt | 324_160_0_698 |
| 7 | 0_698 | 324_16074_0_69843_sedtool.txt | 324_160_0_698 |
| 8 | m36_458 | 80_74179_m36_45833_sedtool.txt | 80_741_m36_458 |
| 9 | m36_458 | 80_74179_m36_45833_sedtool.txt | 80_741_m36_458 |
| 10 | m36_458 | 80_74179_m36_45833_sedtool.txt | 80_741_m36_458 |
| 11 | 39_039 | 141_76260_39_03909_sedtool.txt | 141_762_39_039 |
| 12 | m14_824 | 172_52938_m14_82422_sedtool.txt | 172_529_m14_824 |
| 13 | m14_824 | 172_52938_m14_82422_sedtool.txt | 172_529_m14_824 |
| 14 | m43_552 | 70_07112_m43_55250_sedtool.txt | 70_071_m43_552 |
| 15 | m43_552 | 70_07112_m43_55250_sedtool.txt | 70_071_m43_552 |
| 16 | 52_202 | 212_83580_52_20264_sedtool.txt | 212_835_52_202 |
| 17 | 52_202 | 212_83580_52_20264_sedtool.txt | 212_835_52_202 |
| 18 | 52_202 | 212_83580_52_20264_sedtool.txt | 212_835_52_202 |
| 19 | m63_712 | 294_85454_m63_71267_sedtool.txt | 294_854_m63_712 |
| 20 | 48_746 | 277_38250_48_74631_sedtool.txt | 277_382_48_746 |
| 21 | 48_746 | 277_38250_48_74631_sedtool.txt | 277_382_48_746 |
| 22 | 48_746 | 277_38250_48_74631_sedtool.txt | 277_382_48_746 |
| 23 | 48_746 | 277_38250_48_74631_sedtool.txt | 277_382_48_746 |
| 24 | 39_813 | 88_87833_39_81350_sedtool.txt | 88_878_39_813 |
| 25 | 33_159 | 24_42196_33_15989_sedtool.txt | 24_421_33_159 |
| 26 | 33_159 | 24_42196_33_15989_sedtool.txt | 24_421_33_159 |
| 27 | 6_960 | 327_02276_6_96073_sedtool.txt | 327_022_6_960 |
| 28 | 6_960 | 327_02276_6_96073_sedtool.txt | 327_022_6_960 |
| 29 | 6_960 | 327_02276_6_96073_sedtool.txt | 327_022_6_960 |
| ... | ... | ... | ... |
| 1085 | 21_321 | 169_78622_21_32159_sedtool.txt | 169_786_21_321 |
| 1086 | 12_693 | 13_39550_12_69330_sedtool.txt | 13_395_12_693 |
| 1087 | 9_629 | 211_04413_9_62929_sedtool.txt | 211_044_9_629 |
| 1088 | 11_495 | 213_94272_11_49547_sedtool.txt | 213_942_11_495 |
| 1089 | m5_344 | 189_91435_m5_34422_sedtool.txt | 189_914_m5_344 |
| 1090 | 2_686 | 1_86280_2_68698_sedtool.txt | 1_862_2_686 |
| 1091 | 33_490 | 208_32415_33_49084_sedtool.txt | 208_324_33_490 |
| 1092 | 45_698 | 108_56290_45_69881_sedtool.txt | 108_562_45_698 |
| 1093 | 5_618 | 201_08292_5_61806_sedtool.txt | 201_082_5_618 |
| 1094 | 52_286 | 141_30349_52_28623_sedtool.txt | 141_303_52_286 |
| 1095 | 10_138 | 323_11581_10_13871_sedtool.txt | 323_115_10_138 |
| 1096 | 55_125 | 179_11730_55_12529_sedtool.txt | 179_117_55_125 |
| 1097 | 2_715 | 31_95783_2_71542_sedtool.txt | 31_957_2_715 |
| 1098 | 9_313 | 21_18550_9_31369_sedtool.txt | 21_185_9_313 |
| 1099 | 0_891 | 1_79171_0_89127_sedtool.txt | 1_791_0_891 |
| 1100 | 1_859 | 212_70638_1_85964_sedtool.txt | 212_706_1_859 |
| 1101 | 25_926 | 211_31748_25_92637_sedtool.txt | 211_317_25_926 |
| 1102 | 23_430 | 208_52677_23_43033_sedtool.txt | 208_526_23_430 |
| 1103 | 35_654 | 205_53478_35_65429_sedtool.txt | 205_534_35_654 |
| 1104 | 44_003 | 213_45139_44_00386_sedtool.txt | 213_451_44_003 |
| 1105 | 35_439 | 220_53114_35_43973_sedtool.txt | 220_531_35_439 |
| 1106 | 35_029 | 239_79012_35_02993_sedtool.txt | 239_790_35_029 |
| 1107 | 27_157 | 222_78669_27_15743_sedtool.txt | 222_786_27_157 |

```

1108  54_310  125_65339_54_31012_sedtool.txt  125_653_54_310
1109  m5_089   53_41562_m5_08956_sedtool.txt   53_415_m5_089
1110   0_560   153_72879_0_56026_sedtool.txt   153_728_0_560
1111  33_546   186_45382_33_54680_sedtool.txt  186_453_33_546
1112  14_053   183_57348_14_05336_sedtool.txt  183_573_14_053
1113  54_625   177_83515_54_62583_sedtool.txt  177_835_54_625
1114  11_738   170_44615_11_73852_sedtool.txt  170_446_11_738

```

[1115 rows x 8 columns]

```

In [26]: agns_results = agns.merge(df3[['ids','filenames']], left_on='label', right_on='ids')
         agns_results

```

```

Out [26]:

```

| | label | RA | DEC | ID | Name \ |
|------|-------------------------|------------|------------|-------|--------------|
| 0 | 3535_49_9504_41_5117 | 49.950417 | 41.511667 | 3535 | 3C84 |
| 1 | 3536_49_9504_41_5117 | 49.950417 | 41.511667 | 3536 | S40316+413 |
| 2 | 3537_49_9504_41_5117 | 49.950417 | 41.511667 | 3537 | 1Jy0316+413 |
| 3 | 12799_343_4904_16_1481 | 343.490417 | 16.148056 | 12799 | 3C454.3 |
| 4 | 12798_343_4904_16_1481 | 343.490417 | 16.148056 | 12798 | 1Jy2251+158 |
| 5 | 12797_343_4904_16_1481 | 343.490417 | 16.148056 | 12797 | 3C 454.3 |
| 6 | 11775_324_1604_0_6983 | 324.160417 | 0.698333 | 11775 | OX57 |
| 7 | 11776_324_1604_0_6983 | 324.160417 | 0.698333 | 11776 | 1Jy2134+004 |
| 8 | 4187_80_7413_-36_4583 | 80.741250 | -36.458333 | 4187 | 0521-36 |
| 9 | 4189_80_7413_-36_4583 | 80.741250 | -36.458333 | 4189 | 1Jy0521-365 |
| 10 | 4188_80_7413_-36_4583 | 80.741250 | -36.458333 | 4188 | PKS 0521-365 |
| 11 | 5121_141_7625_39_0392 | 141.762500 | 39.039167 | 5121 | B2 0923+39 |
| 12 | 6370_172_5292_-14_8242 | 172.529167 | -14.824167 | 6370 | PKS 1127-14 |
| 13 | 3992_70_0712_-43_5522 | 70.071250 | -43.552222 | 3992 | 1Jy0438-436 |
| 14 | 3994_70_0717_-43_5525 | 70.071667 | -43.552500 | 3994 | PKS 0438-43 |
| 15 | 9229_212_8354_52_2022 | 212.835417 | 52.202222 | 9229 | 1Jy1409+524 |
| 16 | 6371_172_5292_-14_8242 | 172.529167 | -14.824167 | 6371 | 1Jy1127-145 |
| 17 | 9227_212_8354_52_2025 | 212.835417 | 52.202500 | 9227 | 3C295 |
| 18 | 9228_212_8354_52_2022 | 212.835417 | 52.202222 | 9228 | S41409+524 |
| 19 | 11096_294_8542_-63_7128 | 294.854167 | -63.712778 | 11096 | PKS 1934-63 |
| 20 | 10984_277_3821_48_7461 | 277.382083 | 48.746111 | 10984 | 3C380 |
| 21 | 10985_277_3821_48_7461 | 277.382083 | 48.746111 | 10985 | S41828+487 |
| 22 | 10986_277_3821_48_7461 | 277.382083 | 48.746111 | 10986 | 1Jy1828+487 |
| 23 | 10987_277_3825_48_7461 | 277.382500 | 48.746111 | 10987 | 3C 380.0 |
| 24 | 4260_88_8783_39_8136 | 88.878333 | 39.813611 | 4260 | B2 0552+39A |
| 25 | 2290_24_4217_33_1597 | 24.421667 | 33.159722 | 2290 | 3C48 |
| 26 | 2291_24_4217_33_1597 | 24.421667 | 33.159722 | 2291 | 1Jy0134+329 |
| 27 | 11952_327_0229_6_9608 | 327.022917 | 6.960833 | 11952 | PKS 2145+06 |
| 28 | 11951_327_0225_6_9606 | 327.022500 | 6.960556 | 11951 | 1Jy2145+067 |
| 29 | 11950_327_0225_6_9606 | 327.022500 | 6.960556 | 11950 | 4C06.69 |
| ... | ... | ... | ... | ... | ... |
| 1085 | 6285_169_7867_21_3217 | 169.786667 | 21.321667 | 6285 | PG 1116+215 |
| 1086 | 994_13_3954_12_6933 | 13.395417 | 12.693333 | 994 | I ZW 1 |
| 1087 | 9152_211_0442_9_6294 | 211.044167 | 9.629444 | 9152 | 2E 1401+0952 |

| | | | | | |
|------|------------------------|------------|-----------|-------|-----------------|
| 1088 | 9258_213_9429_11_4956 | 213.942917 | 11.495556 | 9258 | H 1413+117 |
| 1089 | 7581_189_9142_-5_3442 | 189.914167 | -5.344167 | 7581 | NGC 4593 |
| 1090 | 99_1_8629_2_6867 | 1.862917 | 2.686667 | 99 | UM 202 |
| 1091 | 9042_208_3242_33_4908 | 208.324167 | 33.490833 | 9042 | NGC 5347 |
| 1092 | 4402_108_5629_45_6989 | 108.562917 | 45.698889 | 4402 | MARK 376 |
| 1093 | 8442_201_0829_5_6181 | 201.082917 | 5.618056 | 8442 | IRAS 13218+0552 |
| 1094 | 5106_141_3037_52_2864 | 141.303750 | 52.286389 | 5106 | MARK 110 |
| 1095 | 11683_323_1158_10_1386 | 323.115833 | 10.138611 | 11683 | II ZW 136 |
| 1096 | 6719_179_1171_55_125 | 179.117083 | 55.125000 | 6719 | NGC 3982 |
| 1097 | 2674_31_9575_2_7153 | 31.957500 | 2.715278 | 2674 | MARK 586 |
| 1098 | 2070_21_1854_9_3136 | 21.185417 | 9.313611 | 2070 | MS0122.1+0903 |
| 1099 | 94_1_7917_0_8914 | 1.791667 | 0.891389 | 94 | UM 200 |
| 1100 | 9212_212_7062_1_8594 | 212.706250 | 1.859444 | 9212 | 1E 1408+020 |
| 1101 | 9162_211_3175_25_9261 | 211.317500 | 25.926111 | 9162 | PG 1402+261 |
| 1102 | 9055_208_5267_23_4303 | 208.526667 | 23.430278 | 9055 | MARK 662 |
| 1103 | 8822_205_5346_35_6542 | 205.534583 | 35.654167 | 8822 | NGC 5273 |
| 1104 | 9243_213_4512_44_0039 | 213.451250 | 44.003889 | 9243 | PG 1411+442 |
| 1105 | 9537_220_5312_35_4397 | 220.531250 | 35.439722 | 9537 | MARK 478 |
| 1106 | 10189_239_79_35_0297 | 239.790000 | 35.029722 | 10189 | MARK 493 |
| 1107 | 9640_222_7867_27_1575 | 222.786667 | 27.157500 | 9640 | PG 1448+273 |
| 1108 | 4641_125_6533_54_3103 | 125.653333 | 54.310278 | 4641 | MS 08188+5428 |
| 1109 | 3610_53_4154_-5_0894 | 53.415417 | -5.089444 | 3610 | NGC 1358 |
| 1110 | 5571_153_7288_0_5603 | 153.728750 | 0.560278 | 5571 | PG 1012+008 |
| 1111 | 7228_186_4538_33_5469 | 186.453750 | 33.546944 | 7228 | NGC 4395 |
| 1112 | 6963_183_5738_14_0536 | 183.573750 | 14.053611 | 6963 | PG 1211+143 |
| 1113 | 6649_177_8354_54_6258 | 177.835417 | 54.625833 | 6649 | PG 1148+549 |
| 1114 | 6306_170_4462_11_7386 | 170.446250 | 11.738611 | 6306 | MARK 734 |

| | redsh | Vmag | Radio Fl | X Fl(mJ | Class \ |
|----|-------|------|----------|---------|----------------------|
| 0 | 0.017 | 11.9 | 47261.0 | 17.514 | Radio Galaxy radio 1 |
| 1 | 0.018 | 11.9 | 47200.0 | 17.514 | Radio Galaxy radio 1 |
| 2 | 0.017 | 11.9 | 46310.0 | 17.514 | Radio Galaxy radio 1 |
| 3 | 0.860 | 16.1 | 23261.0 | 1.033 | QSO radio loud flat |
| 4 | 0.860 | 16.1 | 23261.0 | 1.033 | QSO radio loud flat |
| 5 | 0.860 | 16.1 | 23261.0 | 1.033 | QSO radio loud flat |
| 6 | 1.936 | 18.0 | 12366.0 | 0.172 | QSO radio loud flat |
| 7 | 1.936 | 16.8 | 12366.0 | 0.172 | QSO radio loud flat |
| 8 | 0.055 | 15.0 | 9290.0 | 2.087 | BL Lac |
| 9 | 0.055 | 14.6 | 9290.0 | 2.087 | BL Lac |
| 10 | 0.055 | 14.6 | 9290.0 | 2.087 | BL Lac |
| 11 | 0.699 | 17.9 | 8894.0 | 0.316 | QSO radio loud flat |
| 12 | 1.187 | 16.9 | 7262.0 | 0.261 | QSO radio loud flat |
| 13 | 2.852 | 18.8 | 7013.0 | 0.185 | QSO radio loud flat |
| 14 | 2.852 | 18.8 | 7013.0 | 0.185 | QSO radio loud flat |
| 15 | 0.461 | 20.1 | 6600.0 | 0.079 | Radio Galaxy radio 1 |
| 16 | 1.187 | 16.9 | 6570.0 | 0.261 | QSO radio loud flat |
| 17 | 0.461 | 20.2 | 6487.0 | 0.079 | Radio Galaxy radio 1 |
| 18 | 0.461 | 20.1 | 6480.0 | 0.079 | Radio Galaxy radio 1 |

| | | | | | |
|------|-------|------|--------|-------|----------------------|
| 19 | 0.183 | 18.4 | 6454.0 | 0.000 | Radio Galaxy radio q |
| 20 | 0.691 | 16.8 | 6184.0 | 0.652 | QSO radio loud steep |
| 21 | 0.691 | 16.8 | 6184.0 | 0.652 | QSO radio loud steep |
| 22 | 0.691 | 16.8 | 6184.0 | 0.652 | QSO radio loud steep |
| 23 | 0.691 | 16.8 | 6184.0 | 0.652 | QSO radio loud steep |
| 24 | 2.365 | 17.7 | 5425.0 | 0.380 | QSO radio loud flat |
| 25 | 0.367 | 16.2 | 5378.0 | 0.925 | QSO radio loud steep |
| 26 | 0.367 | 16.2 | 5378.0 | 0.925 | QSO radio loud steep |
| 27 | 0.990 | 16.5 | 4570.0 | 0.907 | QSO radio loud flat |
| 28 | 0.990 | 16.5 | 4570.0 | 0.907 | QSO radio loud flat |
| 29 | 0.990 | 16.5 | 4570.0 | 0.907 | QSO radio loud flat |
| ... | ... | ... | ... | ... | ... |
| 1085 | 0.177 | 14.7 | 3.0 | 0.390 | Seyfert type 1 |
| 1086 | 0.061 | 14.0 | 3.0 | 2.267 | Seyfert type 1 |
| 1087 | 0.434 | 16.9 | 3.0 | 0.134 | QSO radio quiet |
| 1088 | 2.546 | 16.7 | 2.0 | 0.003 | QSO radio quiet |
| 1089 | 0.009 | 13.1 | 2.0 | 2.532 | Seyfert type 1 |
| 1090 | 0.300 | 18.0 | 2.0 | 0.357 | QSO radio loud steep |
| 1091 | 0.008 | 11.8 | 2.0 | 0.000 | Seyfert type 2 |
| 1092 | 0.056 | 14.6 | 2.0 | 0.038 | Seyfert type 1 |
| 1093 | 0.201 | 17.1 | 2.0 | 0.000 | Seyfert type 1 |
| 1094 | 0.036 | 15.4 | 2.0 | 5.360 | Seyfert type 1 |
| 1095 | 0.063 | 14.6 | 2.0 | 2.815 | Seyfert type 1 |
| 1096 | 0.003 | 10.8 | 2.0 | 0.001 | Seyfert type 2 |
| 1097 | 0.155 | 15.4 | 2.0 | 0.675 | QSO radio quiet |
| 1098 | 0.339 | 20.0 | 1.0 | 0.060 | BL Lac |
| 1099 | 0.317 | 17.5 | 1.0 | 0.169 | QSO radio quiet |
| 1100 | 0.199 | 18.3 | 1.0 | 0.000 | Seyfert type 1 |
| 1101 | 0.164 | 15.0 | 1.0 | 0.522 | Seyfert type 1 |
| 1102 | 0.055 | 15.4 | 1.0 | 0.154 | Seyfert type 1 |
| 1103 | 0.003 | 13.1 | 1.0 | 0.039 | Seyfert type 1 |
| 1104 | 0.089 | 14.4 | 1.0 | 0.007 | Seyfert type 1 |
| 1105 | 0.077 | 14.6 | 1.0 | 0.809 | Seyfert type 1 |
| 1106 | 0.031 | 15.1 | 1.0 | 0.290 | Seyfert type 1 |
| 1107 | 0.065 | 14.4 | 1.0 | 1.420 | Seyfert type 1 |
| 1108 | 0.086 | 16.5 | 1.0 | 0.230 | Seyfert type 1 |
| 1109 | 0.013 | 13.1 | 1.0 | 0.000 | Seyfert type 2 |
| 1110 | 0.185 | 15.6 | 1.0 | 0.685 | Seyfert type 1 |
| 1111 | 0.001 | 10.1 | 1.0 | 0.006 | Seyfert type 1 |
| 1112 | 0.085 | 14.2 | 1.0 | 1.006 | Seyfert type 1 |
| 1113 | 0.978 | 15.8 | 1.0 | 0.047 | QSO radio quiet |
| 1114 | 0.049 | 14.9 | 1.0 | 0.578 | Seyfert type 1 |

| | ids | filenames |
|---|------------------------|--------------------------------|
| 0 | 3535_49_9504_41_5117 | 49_95067_41_51169_sedtool.txt |
| 1 | 3536_49_9504_41_5117 | 49_95067_41_51169_sedtool.txt |
| 2 | 3537_49_9504_41_5117 | 49_95067_41_51169_sedtool.txt |
| 3 | 12799_343_4904_16_1481 | 343_49042_16_14817_sedtool.txt |

| | | |
|------|-------------------------|---------------------------------|
| 4 | 12798_343_4904_16_1481 | 343_49042_16_14817_sedtool.txt |
| 5 | 12797_343_4904_16_1481 | 343_49042_16_14817_sedtool.txt |
| 6 | 11775_324_1604_0_6983 | 324_16074_0_69843_sedtool.txt |
| 7 | 11776_324_1604_0_6983 | 324_16074_0_69843_sedtool.txt |
| 8 | 4187_80_7413_-36_4583 | 80_74179_m36_45833_sedtool.txt |
| 9 | 4189_80_7413_-36_4583 | 80_74179_m36_45833_sedtool.txt |
| 10 | 4188_80_7413_-36_4583 | 80_74179_m36_45833_sedtool.txt |
| 11 | 5121_141_7625_39_0392 | 141_76260_39_03909_sedtool.txt |
| 12 | 6370_172_5292_-14_8242 | 172_52938_m14_82422_sedtool.txt |
| 13 | 3992_70_0712_-43_5522 | 70_07112_m43_55250_sedtool.txt |
| 14 | 3994_70_0717_-43_5525 | 70_07112_m43_55250_sedtool.txt |
| 15 | 9229_212_8354_52_2022 | 212_83580_52_20264_sedtool.txt |
| 16 | 6371_172_5292_-14_8242 | 172_52938_m14_82422_sedtool.txt |
| 17 | 9227_212_8354_52_2025 | 212_83580_52_20264_sedtool.txt |
| 18 | 9228_212_8354_52_2022 | 212_83580_52_20264_sedtool.txt |
| 19 | 11096_294_8542_-63_7128 | 294_85454_m63_71267_sedtool.txt |
| 20 | 10984_277_3821_48_7461 | 277_38250_48_74631_sedtool.txt |
| 21 | 10985_277_3821_48_7461 | 277_38250_48_74631_sedtool.txt |
| 22 | 10986_277_3821_48_7461 | 277_38250_48_74631_sedtool.txt |
| 23 | 10987_277_3825_48_7461 | 277_38250_48_74631_sedtool.txt |
| 24 | 4260_88_8783_39_8136 | 88_87833_39_81350_sedtool.txt |
| 25 | 2290_24_4217_33_1597 | 24_42196_33_15989_sedtool.txt |
| 26 | 2291_24_4217_33_1597 | 24_42196_33_15989_sedtool.txt |
| 27 | 11952_327_0229_6_9608 | 327_02276_6_96073_sedtool.txt |
| 28 | 11951_327_0225_6_9606 | 327_02276_6_96073_sedtool.txt |
| 29 | 11950_327_0225_6_9606 | 327_02276_6_96073_sedtool.txt |
| ... | ... | ... |
| 1085 | 6285_169_7867_21_3217 | 169_78622_21_32159_sedtool.txt |
| 1086 | 994_13_3954_12_6933 | 13_39550_12_69330_sedtool.txt |
| 1087 | 9152_211_0442_9_6294 | 211_04413_9_62929_sedtool.txt |
| 1088 | 9258_213_9429_11_4956 | 213_94272_11_49547_sedtool.txt |
| 1089 | 7581_189_9142_-5_3442 | 189_91435_m5_34422_sedtool.txt |
| 1090 | 99_1_8629_2_6867 | 1_86280_2_68698_sedtool.txt |
| 1091 | 9042_208_3242_33_4908 | 208_32415_33_49084_sedtool.txt |
| 1092 | 4402_108_5629_45_6989 | 108_56290_45_69881_sedtool.txt |
| 1093 | 8442_201_0829_5_6181 | 201_08292_5_61806_sedtool.txt |
| 1094 | 5106_141_3037_52_2864 | 141_30349_52_28623_sedtool.txt |
| 1095 | 11683_323_1158_10_1386 | 323_11581_10_13871_sedtool.txt |
| 1096 | 6719_179_1171_55_125 | 179_11730_55_12529_sedtool.txt |
| 1097 | 2674_31_9575_2_7153 | 31_95783_2_71542_sedtool.txt |
| 1098 | 2070_21_1854_9_3136 | 21_18550_9_31369_sedtool.txt |
| 1099 | 94_1_7917_0_8914 | 1_79171_0_89127_sedtool.txt |
| 1100 | 9212_212_7062_1_8594 | 212_70638_1_85964_sedtool.txt |
| 1101 | 9162_211_3175_25_9261 | 211_31748_25_92637_sedtool.txt |
| 1102 | 9055_208_5267_23_4303 | 208_52677_23_43033_sedtool.txt |
| 1103 | 8822_205_5346_35_6542 | 205_53478_35_65429_sedtool.txt |
| 1104 | 9243_213_4512_44_0039 | 213_45139_44_00386_sedtool.txt |
| 1105 | 9537_220_5312_35_4397 | 220_53114_35_43973_sedtool.txt |

| | | |
|------|-----------------------|--------------------------------|
| 1106 | 10189_239_79_35_0297 | 239_79012_35_02993_sedtool.txt |
| 1107 | 9640_222_7867_27_1575 | 222_78669_27_15743_sedtool.txt |
| 1108 | 4641_125_6533_54_3103 | 125_65339_54_31012_sedtool.txt |
| 1109 | 3610_53_4154_-5_0894 | 53_41562_m5_08956_sedtool.txt |
| 1110 | 5571_153_7288_0_5603 | 153_72879_0_56026_sedtool.txt |
| 1111 | 7228_186_4538_33_5469 | 186_45382_33_54680_sedtool.txt |
| 1112 | 6963_183_5738_14_0536 | 183_57348_14_05336_sedtool.txt |
| 1113 | 6649_177_8354_54_6258 | 177_83515_54_62583_sedtool.txt |
| 1114 | 6306_170_4462_11_7386 | 170_44615_11_73852_sedtool.txt |

[1115 rows x 12 columns]

1.4 Check a SED

In [27]: i = 137

agns_results.iloc[i]

```
Out[27]: label          11137_299_4992_-38_7517
RA              299.499
DEC             -38.7517
ID              11137
Name            PKS 1954-388
redsh           0.63
Vmag            17.5
Radio Fl        2000
X Fl(mJ)        0
Class           QSO radio loud flat
ids             11137_299_4992_-38_7517
filenames       299_49917_m38_75194_sedtool.txt
Name: 137, dtype: object
```

In [28]: filename = agns_results.iloc[i].filenames

```
ffname = 'work/AGN_all_radio_non_null/Results/SEDtool/{!s}'.format(filename)
%cat $ffname
```

| | | | | | | | | | | | | | | |
|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|----------|--|----------|
| 299.49917 | | -38.75194 | | 8.430E+08 | | 1.000E+00 | | 1.192E-14 | | 3.600E-16 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.418E+17 | | 1.000E+00 | | 1.469E-12 | | 5.590E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.418E+17 | | 1.000E+00 | | 6.228E-13 | | 2.762E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.418E+17 | | 1.000E+00 | | 1.575E-12 | | 5.215E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.418E+17 | | 1.000E+00 | | 7.728E-13 | | 3.920E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.660E+17 | | 1.000E+00 | | 1.128E-12 | | 4.834E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.660E+17 | | 1.000E+00 | | 1.459E-12 | | 5.118E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.572E+17 | | 1.000E+00 | | 6.668E-13 | | 6.035E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 3.627E+17 | | 1.000E+00 | | 8.231E-13 | | 6.870E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.451E+18 | | 1.000E+00 | | 9.281E-13 | | 8.895E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.400E+09 | | 1.000E+00 | | 2.091E-14 | | 6.250E-16 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 5.000E+09 | | 1.000E+00 | | 2.035E-13 | | 1.010E-14 | | 55000.00 | | 55000.00 |

| | | | | | | | | | | | | | | |
|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|----------|--|----------|
| 299.49917 | | -38.75194 | | 8.000E+09 | | 1.000E+00 | | 3.410E-13 | | 1.775E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.000E+10 | | 1.000E+00 | | 7.512E-13 | | 3.120E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 4.800E+09 | | 1.000E+00 | | 1.088E-13 | | 1.750E-15 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 8.600E+09 | | 1.000E+00 | | 2.289E-13 | | 1.035E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 4.800E+09 | | 1.000E+00 | | 9.331E-14 | | 4.870E-15 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.000E+11 | | 1.000E+00 | | 1.555E-12 | | 6.000E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.430E+11 | | 1.000E+00 | | 1.871E-12 | | 6.250E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.170E+11 | | 1.000E+00 | | 2.330E-12 | | 7.350E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 4.400E+10 | | 1.000E+00 | | 7.873E-13 | | 6.575E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 7.000E+10 | | 1.000E+00 | | 1.134E-12 | | 8.450E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.389E+14 | | 1.000E+00 | | 2.015E-12 | | 1.375E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.804E+14 | | 1.000E+00 | | 1.865E-12 | | 1.150E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.427E+14 | | 1.000E+00 | | 1.703E-12 | | 9.900E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 8.817E+13 | | 1.000E+00 | | 4.555E-12 | | 9.650E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 6.517E+13 | | 1.000E+00 | | 5.339E-12 | | 9.850E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.498E+13 | | 1.000E+00 | | 3.773E-12 | | 7.650E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.363E+13 | | 1.000E+00 | | 5.252E-12 | | 2.130E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 4.455E+14 | | 1.000E+00 | | 2.492E-12 | | 0.000E+00 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.948E+15 | | 1.000E+00 | | 1.964E-12 | | 1.930E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.295E+15 | | 1.000E+00 | | 4.018E-12 | | 1.670E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.344E+15 | | 1.000E+00 | | 4.534E-12 | | 2.850E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.477E+15 | | 1.000E+00 | | 2.784E-12 | | 1.535E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 8.563E+14 | | 1.000E+00 | | 2.819E-12 | | 2.150E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 8.563E+14 | | 1.000E+00 | | 3.611E-12 | | 1.790E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 6.925E+14 | | 1.000E+00 | | 3.323E-12 | | 1.905E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 5.550E+14 | | 1.000E+00 | | 2.759E-12 | | 2.595E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.138E+15 | | 1.000E+00 | | 4.149E-12 | | 1.915E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.344E+15 | | 1.000E+00 | | 4.862E-12 | | 2.595E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.477E+15 | | 1.000E+00 | | 4.712E-12 | | 1.660E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.418E+23 | | 1.000E+00 | | 5.935E-12 | | 3.230E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 4.835E+22 | | 1.000E+00 | | 1.168E-11 | | 7.450E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.451E+23 | | 1.000E+00 | | 8.733E-12 | | 4.705E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 4.835E+23 | | 1.000E+00 | | 6.192E-12 | | 4.520E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.451E+24 | | 1.000E+00 | | 2.767E-12 | | 4.275E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.451E+25 | | 1.000E+00 | | 4.487E-13 | | 2.601E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.209E+25 | | 1.000E+00 | | 1.662E-13 | | 6.760E-14 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 3.627E+24 | | 1.000E+00 | | 6.914E-13 | | 3.052E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 8.462E+24 | | 1.000E+00 | | 1.379E-19 | | 4.052E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.418E+25 | | 1.000E+00 | | 2.969E-13 | | 3.053E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 7.253E+25 | | 1.000E+00 | | 5.152E-18 | | 1.808E-12 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 2.418E+26 | | 1.000E+00 | | 1.034E-21 | | 6.385E-12 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.209E+23 | | 1.000E+00 | | 1.000E-11 | | 3.370E-13 | | 55000.00 | | 55000.00 |
| 299.49917 | | -38.75194 | | 1.209E+25 | | 1.000E+00 | | 1.488E-12 | | 5.000E-14 | | 55000.00 | | 55000.00 |

In [29]: fname

Out[29]: 'work/AGN_all_radio_non_null/Results/SEDtool/299_49917_m38_75194_sedtool.txt'

```
In [30]: df_sed = pd.read_csv(ffname, sep='|', names=['ra', 'dec', 'freq', 'dfreq', 'flux', 'dflux'])
```

```
df_sed
```

```
Out [30]:
```

| | ra | dec | freq | dfreq | flux | dflux | \ |
|----|-----------|-----------|--------------|-------|--------------|--------------|---|
| 0 | 299.49917 | -38.75194 | 8.430000e+08 | 1.0 | 1.192000e-14 | 3.600000e-16 | |
| 1 | 299.49917 | -38.75194 | 2.418000e+17 | 1.0 | 1.469000e-12 | 5.590000e-13 | |
| 2 | 299.49917 | -38.75194 | 2.418000e+17 | 1.0 | 6.228000e-13 | 2.762000e-13 | |
| 3 | 299.49917 | -38.75194 | 2.418000e+17 | 1.0 | 1.575000e-12 | 5.215000e-13 | |
| 4 | 299.49917 | -38.75194 | 2.418000e+17 | 1.0 | 7.728000e-13 | 3.920000e-14 | |
| 5 | 299.49917 | -38.75194 | 2.660000e+17 | 1.0 | 1.128000e-12 | 4.834000e-13 | |
| 6 | 299.49917 | -38.75194 | 2.660000e+17 | 1.0 | 1.459000e-12 | 5.118000e-13 | |
| 7 | 299.49917 | -38.75194 | 1.572000e+17 | 1.0 | 6.668000e-13 | 6.035000e-14 | |
| 8 | 299.49917 | -38.75194 | 3.627000e+17 | 1.0 | 8.231000e-13 | 6.870000e-14 | |
| 9 | 299.49917 | -38.75194 | 1.451000e+18 | 1.0 | 9.281000e-13 | 8.895000e-14 | |
| 10 | 299.49917 | -38.75194 | 1.400000e+09 | 1.0 | 2.091000e-14 | 6.250000e-16 | |
| 11 | 299.49917 | -38.75194 | 5.000000e+09 | 1.0 | 2.035000e-13 | 1.010000e-14 | |
| 12 | 299.49917 | -38.75194 | 8.000000e+09 | 1.0 | 3.410000e-13 | 1.775000e-14 | |
| 13 | 299.49917 | -38.75194 | 2.000000e+10 | 1.0 | 7.512000e-13 | 3.120000e-14 | |
| 14 | 299.49917 | -38.75194 | 4.800000e+09 | 1.0 | 1.088000e-13 | 1.750000e-15 | |
| 15 | 299.49917 | -38.75194 | 8.600000e+09 | 1.0 | 2.289000e-13 | 1.035000e-14 | |
| 16 | 299.49917 | -38.75194 | 4.800000e+09 | 1.0 | 9.331000e-14 | 4.870000e-15 | |
| 17 | 299.49917 | -38.75194 | 1.000000e+11 | 1.0 | 1.555000e-12 | 6.000000e-14 | |
| 18 | 299.49917 | -38.75194 | 1.430000e+11 | 1.0 | 1.871000e-12 | 6.250000e-14 | |
| 19 | 299.49917 | -38.75194 | 2.170000e+11 | 1.0 | 2.330000e-12 | 7.350000e-14 | |
| 20 | 299.49917 | -38.75194 | 4.400000e+10 | 1.0 | 7.873000e-13 | 6.575000e-14 | |
| 21 | 299.49917 | -38.75194 | 7.000000e+10 | 1.0 | 1.134000e-12 | 8.450000e-14 | |
| 22 | 299.49917 | -38.75194 | 1.389000e+14 | 1.0 | 2.015000e-12 | 1.375000e-13 | |
| 23 | 299.49917 | -38.75194 | 1.804000e+14 | 1.0 | 1.865000e-12 | 1.150000e-13 | |
| 24 | 299.49917 | -38.75194 | 2.427000e+14 | 1.0 | 1.703000e-12 | 9.900000e-14 | |
| 25 | 299.49917 | -38.75194 | 8.817000e+13 | 1.0 | 4.555000e-12 | 9.650000e-14 | |
| 26 | 299.49917 | -38.75194 | 6.517000e+13 | 1.0 | 5.339000e-12 | 9.850000e-14 | |
| 27 | 299.49917 | -38.75194 | 2.498000e+13 | 1.0 | 3.773000e-12 | 7.650000e-14 | |
| 28 | 299.49917 | -38.75194 | 1.363000e+13 | 1.0 | 5.252000e-12 | 2.130000e-13 | |
| 29 | 299.49917 | -38.75194 | 4.455000e+14 | 1.0 | 2.492000e-12 | 0.000000e+00 | |
| 30 | 299.49917 | -38.75194 | 1.948000e+15 | 1.0 | 1.964000e-12 | 1.930000e-13 | |
| 31 | 299.49917 | -38.75194 | 1.295000e+15 | 1.0 | 4.018000e-12 | 1.670000e-13 | |
| 32 | 299.49917 | -38.75194 | 1.344000e+15 | 1.0 | 4.534000e-12 | 2.850000e-13 | |
| 33 | 299.49917 | -38.75194 | 1.477000e+15 | 1.0 | 2.784000e-12 | 1.535000e-13 | |
| 34 | 299.49917 | -38.75194 | 8.563000e+14 | 1.0 | 2.819000e-12 | 2.150000e-14 | |
| 35 | 299.49917 | -38.75194 | 8.563000e+14 | 1.0 | 3.611000e-12 | 1.790000e-13 | |
| 36 | 299.49917 | -38.75194 | 6.925000e+14 | 1.0 | 3.323000e-12 | 1.905000e-13 | |
| 37 | 299.49917 | -38.75194 | 5.550000e+14 | 1.0 | 2.759000e-12 | 2.595000e-13 | |
| 38 | 299.49917 | -38.75194 | 1.138000e+15 | 1.0 | 4.149000e-12 | 1.915000e-13 | |
| 39 | 299.49917 | -38.75194 | 1.344000e+15 | 1.0 | 4.862000e-12 | 2.595000e-13 | |
| 40 | 299.49917 | -38.75194 | 1.477000e+15 | 1.0 | 4.712000e-12 | 1.660000e-13 | |
| 41 | 299.49917 | -38.75194 | 2.418000e+23 | 1.0 | 5.935000e-12 | 3.230000e-13 | |
| 42 | 299.49917 | -38.75194 | 4.835000e+22 | 1.0 | 1.168000e-11 | 7.450000e-13 | |

| | | | | | | |
|----|-----------|-----------|--------------|-----|--------------|--------------|
| 43 | 299.49917 | -38.75194 | 1.451000e+23 | 1.0 | 8.733000e-12 | 4.705000e-13 |
| 44 | 299.49917 | -38.75194 | 4.835000e+23 | 1.0 | 6.192000e-12 | 4.520000e-13 |
| 45 | 299.49917 | -38.75194 | 1.451000e+24 | 1.0 | 2.767000e-12 | 4.275000e-13 |
| 46 | 299.49917 | -38.75194 | 1.451000e+25 | 1.0 | 4.487000e-13 | 2.601000e-13 |
| 47 | 299.49917 | -38.75194 | 1.209000e+25 | 1.0 | 1.662000e-13 | 6.760000e-14 |
| 48 | 299.49917 | -38.75194 | 3.627000e+24 | 1.0 | 6.914000e-13 | 3.052000e-13 |
| 49 | 299.49917 | -38.75194 | 8.462000e+24 | 1.0 | 1.379000e-19 | 4.052000e-13 |
| 50 | 299.49917 | -38.75194 | 2.418000e+25 | 1.0 | 2.969000e-13 | 3.053000e-13 |
| 51 | 299.49917 | -38.75194 | 7.253000e+25 | 1.0 | 5.152000e-18 | 1.808000e-12 |
| 52 | 299.49917 | -38.75194 | 2.418000e+26 | 1.0 | 1.034000e-21 | 6.385000e-12 |
| 53 | 299.49917 | -38.75194 | 1.209000e+23 | 1.0 | 1.000000e-11 | 3.370000e-13 |
| 54 | 299.49917 | -38.75194 | 1.209000e+25 | 1.0 | 1.488000e-12 | 5.000000e-14 |

| | mjd | dmjd | UL | UNK |
|----|---------|---------|----|-----|
| 0 | 55000.0 | 55000.0 | | NaN |
| 1 | 55000.0 | 55000.0 | | NaN |
| 2 | 55000.0 | 55000.0 | | NaN |
| 3 | 55000.0 | 55000.0 | | NaN |
| 4 | 55000.0 | 55000.0 | | NaN |
| 5 | 55000.0 | 55000.0 | | NaN |
| 6 | 55000.0 | 55000.0 | | NaN |
| 7 | 55000.0 | 55000.0 | | NaN |
| 8 | 55000.0 | 55000.0 | | NaN |
| 9 | 55000.0 | 55000.0 | | NaN |
| 10 | 55000.0 | 55000.0 | | NaN |
| 11 | 55000.0 | 55000.0 | | NaN |
| 12 | 55000.0 | 55000.0 | | NaN |
| 13 | 55000.0 | 55000.0 | | NaN |
| 14 | 55000.0 | 55000.0 | | NaN |
| 15 | 55000.0 | 55000.0 | | NaN |
| 16 | 55000.0 | 55000.0 | | NaN |
| 17 | 55000.0 | 55000.0 | | NaN |
| 18 | 55000.0 | 55000.0 | | NaN |
| 19 | 55000.0 | 55000.0 | | NaN |
| 20 | 55000.0 | 55000.0 | | NaN |
| 21 | 55000.0 | 55000.0 | | NaN |
| 22 | 55000.0 | 55000.0 | | NaN |
| 23 | 55000.0 | 55000.0 | | NaN |
| 24 | 55000.0 | 55000.0 | | NaN |
| 25 | 55000.0 | 55000.0 | | NaN |
| 26 | 55000.0 | 55000.0 | | NaN |
| 27 | 55000.0 | 55000.0 | | NaN |
| 28 | 55000.0 | 55000.0 | | NaN |
| 29 | 55000.0 | 55000.0 | | NaN |
| 30 | 55000.0 | 55000.0 | | NaN |
| 31 | 55000.0 | 55000.0 | | NaN |
| 32 | 55000.0 | 55000.0 | | NaN |
| 33 | 55000.0 | 55000.0 | | NaN |

| | | | | |
|----|---------|---------|----|-----|
| 34 | 55000.0 | 55000.0 | | NaN |
| 35 | 55000.0 | 55000.0 | | NaN |
| 36 | 55000.0 | 55000.0 | | NaN |
| 37 | 55000.0 | 55000.0 | | NaN |
| 38 | 55000.0 | 55000.0 | | NaN |
| 39 | 55000.0 | 55000.0 | | NaN |
| 40 | 55000.0 | 55000.0 | | NaN |
| 41 | 55000.0 | 55000.0 | | NaN |
| 42 | 55000.0 | 55000.0 | | NaN |
| 43 | 55000.0 | 55000.0 | | NaN |
| 44 | 55000.0 | 55000.0 | | NaN |
| 45 | 55000.0 | 55000.0 | | NaN |
| 46 | 55000.0 | 55000.0 | | NaN |
| 47 | 55000.0 | 55000.0 | | NaN |
| 48 | 55000.0 | 55000.0 | | NaN |
| 49 | 55000.0 | 55000.0 | UL | NaN |
| 50 | 55000.0 | 55000.0 | | NaN |
| 51 | 55000.0 | 55000.0 | UL | NaN |
| 52 | 55000.0 | 55000.0 | UL | NaN |
| 53 | 55000.0 | 55000.0 | | NaN |
| 54 | 55000.0 | 55000.0 | | NaN |

```
In [31]: import matplotlib
          %matplotlib inline
          from matplotlib import pyplot as plt

          import numpy as np
          x = np.log10(df_sed['freq'])
          y = np.log10(df_sed['flux'])
          #y = df_sed['flux']

          plt.plot(x, y, 'b*')
          plt.grid(True)
```

