BzCat

September 4, 2018

1 Blazars/non-blazars samples definition: 5BzCat

This 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/
5bzcat_label_ra_dec.csv      tmp/
AGNSample_AllColumns.csv     work/
```

1.1 5BzCat: Blazars sample

```
In [3]: bzcat = pd.read_csv('5BZCAT.csv')
        bzcat.sample(10)
```

```
Out[3]:          id     Source name  RA (J2000.0)  Dec (J2000.0)  Redshift  Rmag  \
        538     539  5BZQJ0332-4455      53.18379      -44.93250     2.679  17.1
        2450   2451  5BZQJ1506+3730     226.53971       37.51419     0.672  21.2
        3035   3036  5BZQJ1959-4246     299.80579      -42.76883     2.178  19.7
        3050   3051  5BZQJ2007+6607     301.86988       66.12292     1.325  20.3
        3307   3308  5BZQJ2228-0753     337.21921       -7.89628     0.638  18.0
        3163   3164  5BZQJ2123+0535     320.93550        5.58947     1.941  17.4
        1652   1653  5BZBJ1112+1751     168.10250       17.85606     0.421  18.4
        611     612  5BZQJ0410-7750      62.67629      -77.84536     2.449  18.6
        3378   3379  5BZBJ2254-2725     343.72175      -27.41914     0.333  17.8
        1043   1044  5BZBJ0806+1330     121.56375       13.50556     0.504  19.7

                  Source classification  Flux density 1.4/0.843GHz(mJy)  \
        538   QSO RLoud flat radio sp.                           111.0
        2450  QSO RLoud flat radio sp.                           938.0
        3035  QSO RLoud flat radio sp.                           163.0
        3050  QSO RLoud flat radio sp.                           509.0
        3307  QSO RLoud flat radio sp.                           173.0
        3163  QSO RLoud flat radio sp.                           794.0
        1652                    BL Lac                            14.0
        611   QSO RLoud flat radio sp.                           440.0
        3378                    BL Lac                            53.0
        1043                    BL Lac                            14.0

              Flux density 143GHz(mJy)  X-ray flux 0.1-2.4 keV(1.e-12 cgs)  \
        538                          0                                0.20
        2450                       566                                0.37
        3035                       318                                0.29
        3050                       188                                0.00
        3307                         0                                0.48
        3163                       460                                0.35
        1652                         0                                1.50
        611                          0                                0.00
        3378                         0                                0.00
        1043                         0                                0.00

              Fermi flux 1-100 GeV(ph/cm2/s)
        538                     7.000000e-10
        2450                    7.000000e-10
        3035                    2.500000e-09
        3050                    0.000000e+00
        3307                    0.000000e+00
        3163                    0.000000e+00
        1652                    0.000000e+00
        611                     0.000000e+00
        3378                    0.000000e+00
        1043                    0.000000e+00
```

1.1.1 Define the columns of interest

```
In [4]: col = dict(ra = 'RA (J2000.0)',
                    dec = 'Dec (J2000.0)',
                    idn = 'id',
                    name = 'Source name',
                    flux_radio = 'Flux density 1.4/0.843GHz(mJy)',
                    klass = 'Source classification',
                    flux_opt = 'Rmag',
                    flux_xray = 'X-ray flux 0.1-2.4 keV(1.e-12 cgs)',
                    redshift = 'Redshift',
                    )

In [5]: # Keep only the columns of interest

        bzcat = bzcat[list(col.values())]
        bzcat
```

```
Out[5]:     RA (J2000.0)  Dec (J2000.0)   id    Source name  \
        0        0.08496      -32.35028    1   5BZQJ0000-3221
        1        0.27208      -15.85194    2   5BZQJ0001-1551
        2        0.28592       19.24283    3   5BZQJ0001+1914
        3        0.32504       -7.77408    4   5BZBJ0001-0746
        4        0.33954       -0.19442    5   5BZBJ0001-0011
        5        0.48858      -10.52147    6   5BZGJ0001-1031
        6        0.73817       -0.41308    7   5BZBJ0002-0024
        7        0.83058       21.49572    8   5BZQJ0003+2129
        8        1.02033      -11.81611    9   5BZBJ0004-1148
        9        1.06738       46.25506   10   5BZQJ0004+4615
        10       1.14850      -47.60542   11   5BZQJ0004-4736
        11       1.14896       20.32850   12   5BZQJ0004+2019
        12       1.32471      -16.80131   13   5BZQJ0005-1648
        13       1.33421        5.40303   14   5BZQJ0005+0524
        14       1.48825       38.33756   15   5BZQJ0005+3820
        15       1.55788       -6.39311   16   5BZBJ0006-0623
        16       1.58221      -42.75517   17   5BZQJ0006-4245
        17       1.58454       10.86436   18   5BZGJ0006+1051
        18       1.70329       24.37681   19   5BZQJ0006+2422
        19       1.83575      -61.21842   20   5BZQJ0007-6113
        20       1.99988       47.20214   21   5BZBJ0007+4712
        21       2.00154      -23.65497   22   5BZQJ0008-2339
        22       2.14742      -23.65772   23   5BZBJ0008-2339
        23       2.15642      -46.32800   24   5BZQJ0008-4619
        24       2.26633        6.47261   25   5BZBJ0009+0628
        25       2.32104        6.43186   26   5BZQJ0009+0625
        26       2.34488       50.50794   27   5BZBJ0009+5030
        27       2.61979       20.79725   28   5BZQJ0010+2047
        28       2.62917       10.97489   29   5BZQJ0010+1058
        29       2.64163       17.40528   30   5BZQJ0010+1724
```

```
...           ...            ...    ...            ...
3531    358.22071     -28.43111   3532   5BZQJ2352-2825
3532    358.29775     -27.72378   3533   5BZQJ2353-2743
3533    358.33800     -14.98253   3534   5BZBJ2353-1458
3534    358.42625      55.31131   3535   5BZQJ2353+5518
3535    358.44775     -30.63014   3536   5BZBJ2353-3037
3536    358.52313      -9.96361   3537   5BZQJ2354-0957
3537    358.53825      -0.33000   3538   5BZQJ2354-0019
3538    358.54633     -41.10531   3539   5BZUJ2354-4106
3539    358.59033      45.88450   3540   5BZQJ2354+4553
3540    358.62583     -15.21978   3541   5BZQJ2354-1513
3541    358.71529      -4.08431   3542   5BZUJ2354-0405
3542    358.85642     -33.96592   3543   5BZQJ2355-3357
3543    359.00283     -68.33431   3544   5BZQJ2356-6820
3544    359.01671      -0.39828   3545   5BZBJ2356-0023
3545    359.05283      40.61347   3546   5BZGJ2356+4036
3546    359.09542      81.88117   3547   5BZQJ2356+8152
3547    359.27783       4.81575   3548   5BZQJ2357+0448
3548    359.34938     -24.85089   3549   5BZQJ2357-2451
3549    359.35475      -1.87097   3550   5BZBJ2357-0152
3550    359.37367     -17.30147   3551   5BZBJ2357-1718
3551    359.38000     -11.42756   3552   5BZQJ2357-1125
3552    359.47196     -53.18714   3553   5BZQJ2357-5311
3553    359.50896     -45.92181   3554   5BZQJ2358-4555
3554    359.54533     -10.33572   3555   5BZQJ2358-1020
3555    359.62021       4.50689   3556   5BZQJ2358+0430
3556    359.69204      19.92231   3557   5BZQJ2358+1955
3557    359.74942      39.37453   3558   5BZQJ2358+3922
3558    359.78296     -30.62817   3559   5BZBJ2359-3037
3559    359.88825      38.84508   3560   5BZQJ2359+3850
3560    359.89788     -31.56217   3561   5BZQJ2359-3133

      Flux density 1.4/0.843GHz(mJy)     Source classification  Rmag  \
0                              521.0  QSO RLoud flat radio sp.  18.2
1                              348.0  QSO RLoud flat radio sp.  18.1
2                              265.0  QSO RLoud flat radio sp.  21.6
3                              208.0                    BL Lac  17.9
4                              111.0                    BL Lac  19.6
5                               41.0   BL Lac-galaxy dominated  17.8
6                              178.0                    BL Lac  19.7
7                               83.0  QSO RLoud flat radio sp.  20.1
8                              459.0                    BL Lac  18.8
9                              120.0  QSO RLoud flat radio sp.  20.4
10                             909.0  QSO RLoud flat radio sp.  15.9
11                              55.0  QSO RLoud flat radio sp.  21.6
12                             263.0  QSO RLoud flat radio sp.  18.4
13                             127.0  QSO RLoud flat radio sp.  16.2
14                             572.0  QSO RLoud flat radio sp.  17.6
```

4

	X-ray flux 0.1-2.4 keV(1.e-12 cgs)		Redshift
15	2051.0	BL Lac	17.9
16	246.0	QSO RLoud flat radio sp.	18.5
17	12.0	BL Lac-galaxy dominated	15.6
18	184.0	QSO RLoud flat radio sp.	18.8
19	87.0	QSO RLoud flat radio sp.	19.3
20	60.0	BL Lac	18.2
21	375.0	QSO RLoud flat radio sp.	15.8
22	36.0	BL Lac	16.8
23	109.0	QSO RLoud flat radio sp.	16.6
24	247.0	BL Lac	18.9
25	180.0	QSO RLoud flat radio sp.	19.0
26	12.0	BL Lac	19.4
27	159.0	QSO RLoud flat radio sp.	19.3
28	98.0	QSO RLoud flat radio sp.	15.8
29	918.0	QSO RLoud flat radio sp.	16.7
...	...	...	...
3531	79.0	QSO RLoud flat radio sp.	19.1
3532	169.0	QSO RLoud flat radio sp.	17.9
3533	14.0	BL Lac Candidate	19.5
3534	221.0	QSO RLoud flat radio sp.	18.3
3535	397.0	BL Lac	16.6
3536	199.0	QSO RLoud flat radio sp.	21.2
3537	350.0	QSO RLoud flat radio sp.	18.0
3538	620.0	Blazar Uncertain type	23.2
3539	1872.0	QSO RLoud flat radio sp.	19.1
3540	865.0	QSO RLoud flat radio sp.	18.2
3541	374.0	Blazar Uncertain type	18.1
3542	330.0	QSO RLoud flat radio sp.	16.2
3543	1126.0	QSO RLoud flat radio sp.	15.9
3544	5.0	BL Lac	18.5
3545	25.0	BL Lac-galaxy dominated	14.8
3546	521.0	QSO RLoud flat radio sp.	18.0
3547	129.0	QSO RLoud flat radio sp.	20.8
3548	170.0	QSO RLoud flat radio sp.	19.3
3549	233.0	BL Lac	19.4
3550	44.0	BL Lac	16.9
3551	1814.0	QSO RLoud flat radio sp.	18.6
3552	1411.0	QSO RLoud flat radio sp.	15.6
3553	209.0	QSO RLoud flat radio sp.	18.5
3554	768.0	QSO RLoud flat radio sp.	18.7
3555	246.0	QSO RLoud flat radio sp.	19.1
3556	673.0	QSO RLoud flat radio sp.	17.8
3557	421.0	QSO RLoud flat radio sp.	19.2
3558	62.0	BL Lac	15.8
3559	524.0	QSO RLoud flat radio sp.	19.1
3560	347.0	QSO RLoud flat radio sp.	19.9

X-ray flux 0.1-2.4 keV(1.e-12 cgs) Redshift

0	0.05	1.275
1	0.00	2.044
2	0.00	3.1
3	0.35	0
4	0.00	0.462 ?
5	0.00	0.252
6	0.00	0.523
7	0.00	0.45
8	0.00	0
9	0.00	1.81
10	0.85	0.884
11	0.00	0.677
12	0.44	0.78
13	0.26	1.9
14	0.75	0.229
15	0.82	0.347
16	0.00	1.77 ?
17	1.72	0.168
18	0.00	1.684
19	0.00	0.857
20	0.53	0.28 ?
21	0.30	1.412
22	2.42	0.147
23	0.00	1.85
24	0.55	0
25	0.08	2.694
26	0.24	0
27	0.51	0.6
28	6.14	0.089
29	0.65	1.601
...	...	...
3531	0.00	1.662
3532	0.34	0.889
3533	1.70	0
3534	0.00	1.927
3535	0.22	0.737
3536	0.11	0.989
3537	0.00	0.462
3538	0.00	0.632
3539	0.26	1.992
3540	0.47	2.675
3541	0.28	0.72 ?
3542	1.14	0.702
3543	0.40	1.716
3544	0.29	0.283
3545	0.00	0.131
3546	0.15	1.344 ?
3547	0.00	1.248

```
3548                                      0.00    1.614
3549                                      0.00    0.812
3550                                     13.50        0
3551                                      0.36     0.96
3552                                      1.55    1.006
3553                                      0.00    0.444
3554                                      0.00    1.638
3555                                      0.00    2.298
3556                                      0.31    1.066
3557                                      0.40    1.201
3558                                     40.20    0.165
3559                                      0.51    2.711
3560                                      0.27     0.99

[3561 rows x 9 columns]
```

In [6]: # Clean the Redshift column from '?'

```
bzcat[col['redshift']] = bzcat[col['redshift']].str.replace('\s*\?','')
```

In [7]: # And let's order our catalog by their Radio flux

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

Out[7]:   RA (J2000.0) Dec (J2000.0)   id   Source name \
        0   187.27792   2.05239 1923   5BZQJ1229+0203
        1   49.95067   41.51169   508   5BZUJ0319+4130
        2   274.89583   -63.76339 2910   5BZUJ1819-6345
        3   80.74158   -36.45856   759   5BZUJ0522-3627
        4   277.38242   48.74617 2924   5BZUJ1829+4844
        5   291.21275   -29.24169 2991   5BZQJ1924-2914
        6   343.49063   16.14822 3374   5BZQJ2253+1608
        7   278.41638   -21.06103 2930   5BZQJ1833-2103
        8   194.04654   -5.78931 2014   5BZQJ1256-0547
        9   128.72904   55.57278 1137   5BZGJ0834+5534
        10   224.78158   71.67219 2433   5BZUJ1459+7140
        11   336.44692   -4.95039 3304   5BZQJ2225-0457
        12   338.15171   11.73081 3316   5BZQJ2232+1143
        13   250.74504   39.81028 2707   5BZQJ1642+3948
        14   331.54342   -18.59408 3258   5BZQJ2206-1835
        15   70.07158   -43.55239   678   5BZQJ0440-4333
        16   239.24529   -79.23453 2579   5BZQJ1556-7914
        17   309.65429   51.32019 3105   5BZQJ2038+5119
        18   330.68038   42.27778 3252   5BZBJ2202+4216
        19   263.26129   -13.08042 2821   5BZQJ1733-1304
        20   201.36508   -43.01911 2116   5BZUJ1325-4301
        21   115.88171   -67.44042   984   5BZQJ0743-6726

7

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22         172.52938      -14.82428   1710   5BZQJ1130-1449
23          98.94379      -75.27133    879   5BZQJ0635-7516
24          59.87396       50.96394    586   5BZQJ0359+5057
25         137.38954       42.89625   1253   5BZUJ0909+4253
26          61.39167      -13.13714    600   5BZQJ0405-1308
27          31.21004       15.23639    327   5BZUJ0204+1514
28         244.45533      -77.28847   2639   5BZQJ1617-7717
29         243.42108       34.21331   2624   5BZQJ1613+3412
...            ...            ...      ...            ...
3531       202.13983       11.75569   2131   5BZBJ1328+1145
3532       224.61396       48.54611   2430   5BZBJ1458+4832
3533       266.63487       50.46964   2850   5BZBJ1746+5028
3534       195.73058       50.93842   2044   5BZBJ1302+5056
3535       259.27871       29.52253   2783   5BZGJ1717+2931
3536       202.76213       56.92828   2142   5BZGJ1331+5655
3537       260.31913       60.06844   2796   5BZBJ1721+6004
3538       201.38692      -30.02864   2118   5BZBJ1325-3001
3539        21.18550        9.31369    233   5BZBJ0124+0918
3540       118.84629       37.43856   1025   5BZBJ0755+3726
3541       150.42671       20.80506   1404   5BZGJ1001+2048
3542       146.13471       57.59336   1350   5BZBJ0944+5735
3543       259.75975       55.40178   2789   5BZBJ1719+5524
3544       258.68975       30.60778   2775   5BZBJ1714+3036
3545       129.94750        2.07614   1156   5BZUJ0839+0204
3546         5.50396        0.11611     64   5BZGJ0022+0006
3547       187.03808       -2.36006   1918   5BZBJ1228-0221
3548       353.70129       -8.57706   3489   5BZBJ2334-0834
3549       192.10792        8.50583   1986   5BZBJ1248+0830
3550       228.66675      -47.80831   2480   5BZQJ1514-4748
3551       202.25475      -56.13406   2132   5BZUJ1329-5608
3552       356.34317      -15.25186   3511   5BZUJ2345-1515
3553       252.56929      -50.74672   2721   5BZUJ1650-5044
3554       131.45700      -55.92408   1171   5BZQJ0845-5555
3555        98.83712      -26.34442    878   5BZBJ0635-2620
3556       198.76738      -53.57661   2083   5BZUJ1315-5334
3557       160.43600      -47.66669   1541   5BZQJ1041-4740
3558       201.70508      -52.93989   2123   5BZBJ1326-5256
3559       259.39438      -51.92556   2786   5BZQJ1717-5155
3560       241.12925      -44.69222   2598   5BZBJ1604-4441
```

	Flux density 1.4/0.843GHz(mJy)	Source classification	Rmag \
0	54992.0	QSO RLoud flat radio sp.	12.9
1	22830.0	Blazar Uncertain type	12.3
2	19532.0	Blazar Uncertain type	13.4
3	15620.0	Blazar Uncertain type	14.6
4	13753.0	Blazar Uncertain type	16.7
5	13387.0	QSO RLoud flat radio sp.	17.3
6	12657.0	QSO RLoud flat radio sp.	13.2

7	10896.0	QSO RLoud flat radio sp.	21.0
8	9711.0	QSO RLoud flat radio sp.	15.0
9	8283.0	BL Lac-galaxy dominated	17.2
10	7468.0	Blazar Uncertain type	17.2
11	7412.0	QSO RLoud flat radio sp.	17.6
12	7202.0	QSO RLoud flat radio sp.	16.7
13	7099.0	QSO RLoud flat radio sp.	15.4
14	6399.0	QSO RLoud flat radio sp.	18.5
15	6362.0	QSO RLoud flat radio sp.	18.2
16	6165.0	QSO RLoud flat radio sp.	17.2
17	6081.0	QSO RLoud flat radio sp.	18.9
18	6051.0	BL Lac	12.5
19	5990.0	QSO RLoud flat radio sp.	17.8
20	5700.0	Blazar Uncertain type	7.2
21	5638.0	QSO RLoud flat radio sp.	15.8
22	5622.0	QSO RLoud flat radio sp.	16.0
23	5283.0	QSO RLoud flat radio sp.	15.7
24	4297.0	QSO RLoud flat radio sp.	18.1
25	4234.0	Blazar Uncertain type	18.8
26	4218.0	QSO RLoud flat radio sp.	16.6
27	4068.0	Blazar Uncertain type	22.0
28	4044.0	QSO RLoud flat radio sp.	16.7
29	4024.0	QSO RLoud flat radio sp.	17.3
...	...	...	...
3531	3.0	BL Lac	19.0
3532	3.0	BL Lac	19.9
3533	3.0	BL Lac Candidate	19.9
3534	3.0	BL Lac	19.5
3535	3.0	BL Lac-galaxy dominated	16.7
3536	3.0	BL Lac-galaxy dominated	18.4
3537	3.0	BL Lac	19.6
3538	3.0	BL Lac Candidate	20.0
3539	2.0	BL Lac	19.1
3540	2.0	BL Lac	20.7
3541	2.0	BL Lac-galaxy dominated	19.3
3542	2.0	BL Lac	19.7
3543	2.0	BL Lac	20.8
3544	2.0	BL Lac	18.6
3545	2.0	Blazar Uncertain type	20.6
3546	2.0	BL Lac-galaxy dominated	18.6
3547	1.5	BL Lac	19.1
3548	1.0	BL Lac Candidate	18.8
3549	0.8	BL Lac	19.2
3550	0.0	QSO RLoud flat radio sp.	18.4
3551	0.0	Blazar Uncertain type	0.0
3552	0.0	Blazar Uncertain type	19.4
3553	0.0	Blazar Uncertain type	0.0
3554	0.0	QSO RLoud flat radio sp.	19.8

```
3555                                       0.0                            BL Lac  19.1
3556                                       0.0        Blazar Uncertain type  18.3
3557                                       0.0  QSO RLoud flat radio sp.    17.2
3558                                       0.0                            BL Lac  15.8
3559                                       0.0  QSO RLoud flat radio sp.    18.3
3560                                       0.0                            BL Lac  20.0


      X-ray flux 0.1-2.4 keV(1.e-12 cgs) Redshift
0                                    63.10     0.158
1                                     0.00     0.018
2                                     1.24     0.063
3                                    10.40     0.056
4                                     2.20     0.695
5                                     2.42     0.353
6                                     7.80     0.859
7                                     0.69     2.507
8                                    20.90     0.536
9                                     1.21     0.242
10                                    0.77      0.91
11                                    0.89     1.404
12                                    1.26     1.037
13                                    2.52     0.593
14                                    0.08     0.619
15                                    0.40     2.852
16                                    0.56     0.152
17                                    0.28     1.686
18                                   10.40     0.069
19                                    1.64     0.902
20                                    5.43     0.002
21                                    0.78     1.512
22                                    1.39     1.184
23                                    2.84     0.653
24                                    0.78     1.512
25                                    0.40      0.67
26                                    0.97     0.571
27                                    0.02     0.833
28                                    0.55      1.71
29                                    0.40     1.397
...                                    ...       ...
3531                                  2.19      0.49
3532                                  3.18     0.541
3533                                  0.40         0
3534                                  4.04         0
3535                                  3.29     0.276
3536                                  0.47      0.27
3537                                  0.18     0.531
3538                                  3.68         0
3539                                  0.21     0.338
```
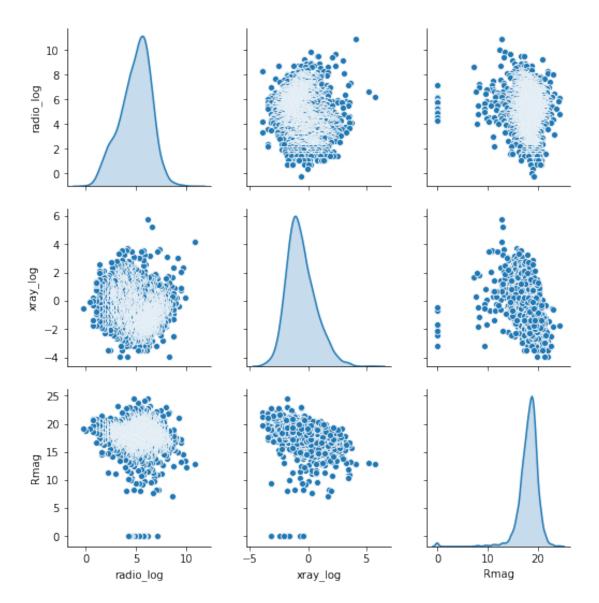
```
3540                                      0.73    0.606
3541                                      0.17    0.344
3542                                      1.27       0
3543                                      0.26    0.626
3544                                      0.25       0
3545                                      0.00       0
3546                                      1.01    0.306
3547                                      0.93    0.323
3548                                      0.00    0.208
3549                                      0.57     0.43
3550                                      0.00    1.551
3551                                      0.63       0
3552                                      0.25       0
3553                                      0.00       0
3554                                      0.00    0.433
3555                                      0.00       0
3556                                      0.00       0
3557                                      0.25    2.558
3558                                      0.26       0
3559                                      0.00    1.158
3560                                      0.44       0

[3561 rows x 9 columns]
```

In [8]: *# Let's create two columns with the log of radio/xray fluxes*

```python
import numpy as np
bzcat['radio_log'] = np.log(bzcat[col['flux_radio']])
_ind = bzcat[col['flux_radio']] <= 0
bzcat.loc[_ind,'radio_log'] = None

bzcat['xray_log'] = np.log(bzcat[col['flux_xray']])
_ind = bzcat[col['flux_xray']] <= 0
bzcat.loc[_ind,'xray_log'] = None

sns.pairplot(bzcat[['radio_log','xray_log', col['flux_opt']]], diag_kind='kde', kind='s
```

```
/anaconda/envs/pd/lib/python3.6/site-packages/ipykernel_launcher.py:4: RuntimeWarning: divide b
  after removing the cwd from sys.path.
/anaconda/envs/pd/lib/python3.6/site-packages/ipykernel_launcher.py:8: RuntimeWarning: divide b

/anaconda/envs/pd/lib/python3.6/site-packages/statsmodels/nonparametric/kde.py:448: RuntimeWarn
  X = X[np.logical_and(X > clip[0], X < clip[1])] # won't work for two columns.
/anaconda/envs/pd/lib/python3.6/site-packages/statsmodels/nonparametric/kde.py:448: RuntimeWarn
  X = X[np.logical_and(X > clip[0], X < clip[1])] # won't work for two columns.
```

Out[8]: <seaborn.axisgrid.PairGrid at 0x10b51b470>

```
In [9]: del bzcat['xray_log'],bzcat['radio_log']

In [10]: bzcat['Label'] = bzcat[col['idn']].astype(str) +'_'+ bzcat[col['ra']].astype(str).str

In [11]: bzcat

Out[11]:        RA (J2000.0)   Dec (J2000.0)     id     Source name  \
        0          187.27792         2.05239   1923   5BZQJ1229+0203
        1           49.95067        41.51169    508   5BZUJ0319+4130
        2          274.89583       -63.76339   2910   5BZUJ1819-6345
        3           80.74158       -36.45856    759   5BZUJ0522-3627
        4          277.38242        48.74617   2924   5BZUJ1829+4844
        5          291.21275       -29.24169   2991   5BZQJ1924-2914
```

6	343.49063	16.14822	3374	5BZQJ2253+1608
7	278.41638	-21.06103	2930	5BZQJ1833-2103
8	194.04654	-5.78931	2014	5BZQJ1256-0547
9	128.72904	55.57278	1137	5BZGJ0834+5534
10	224.78158	71.67219	2433	5BZUJ1459+7140
11	336.44692	-4.95039	3304	5BZQJ2225-0457
12	338.15171	11.73081	3316	5BZQJ2232+1143
13	250.74504	39.81028	2707	5BZQJ1642+3948
14	331.54342	-18.59408	3258	5BZQJ2206-1835
15	70.07158	-43.55239	678	5BZQJ0440-4333
16	239.24529	-79.23453	2579	5BZQJ1556-7914
17	309.65429	51.32019	3105	5BZQJ2038+5119
18	330.68038	42.27778	3252	5BZBJ2202+4216
19	263.26129	-13.08042	2821	5BZQJ1733-1304
20	201.36508	-43.01911	2116	5BZUJ1325-4301
21	115.88171	-67.44042	984	5BZQJ0743-6726
22	172.52938	-14.82428	1710	5BZQJ1130-1449
23	98.94379	-75.27133	879	5BZQJ0635-7516
24	59.87396	50.96394	586	5BZQJ0359+5057
25	137.38954	42.89625	1253	5BZUJ0909+4253
26	61.39167	-13.13714	600	5BZQJ0405-1308
27	31.21004	15.23639	327	5BZUJ0204+1514
28	244.45533	-77.28847	2639	5BZQJ1617-7717
29	243.42108	34.21331	2624	5BZQJ1613+3412
...	...	...	...	...
3531	202.13983	11.75569	2131	5BZBJ1328+1145
3532	224.61396	48.54611	2430	5BZBJ1458+4832
3533	266.63487	50.46964	2850	5BZBJ1746+5028
3534	195.73058	50.93842	2044	5BZBJ1302+5056
3535	259.27871	29.52253	2783	5BZGJ1717+2931
3536	202.76213	56.92828	2142	5BZGJ1331+5655
3537	260.31913	60.06844	2796	5BZBJ1721+6004
3538	201.38692	-30.02864	2118	5BZBJ1325-3001
3539	21.18550	9.31369	233	5BZBJ0124+0918
3540	118.84629	37.43856	1025	5BZBJ0755+3726
3541	150.42671	20.80506	1404	5BZGJ1001+2048
3542	146.13471	57.59336	1350	5BZBJ0944+5735
3543	259.75975	55.40178	2789	5BZBJ1719+5524
3544	258.68975	30.60778	2775	5BZBJ1714+3036
3545	129.94750	2.07614	1156	5BZUJ0839+0204
3546	5.50396	0.11611	64	5BZGJ0022+0006
3547	187.03808	-2.36006	1918	5BZBJ1228-0221
3548	353.70129	-8.57706	3489	5BZBJ2334-0834
3549	192.10792	8.50583	1986	5BZBJ1248+0830
3550	228.66675	-47.80831	2480	5BZQJ1514-4748
3551	202.25475	-56.13406	2132	5BZUJ1329-5608
3552	356.34317	-15.25186	3511	5BZUJ2345-1515
3553	252.56929	-50.74672	2721	5BZUJ1650-5044

```
3554     131.45700      -55.92408   1171   5BZQJ0845-5555
3555      98.83712      -26.34442    878   5BZBJ0635-2620
3556     198.76738      -53.57661   2083   5BZUJ1315-5334
3557     160.43600      -47.66669   1541   5BZQJ1041-4740
3558     201.70508      -52.93989   2123   5BZBJ1326-5256
3559     259.39438      -51.92556   2786   5BZQJ1717-5155
3560     241.12925      -44.69222   2598   5BZBJ1604-4441


      Flux density 1.4/0.843GHz(mJy)      Source classification   Rmag  \
0                           54992.0   QSO RLoud flat radio sp.   12.9
1                           22830.0      Blazar Uncertain type   12.3
2                           19532.0      Blazar Uncertain type   13.4
3                           15620.0      Blazar Uncertain type   14.6
4                           13753.0      Blazar Uncertain type   16.7
5                           13387.0   QSO RLoud flat radio sp.   17.3
6                           12657.0   QSO RLoud flat radio sp.   13.2
7                           10896.0   QSO RLoud flat radio sp.   21.0
8                            9711.0   QSO RLoud flat radio sp.   15.0
9                            8283.0    BL Lac-galaxy dominated   17.2
10                           7468.0      Blazar Uncertain type   17.2
11                           7412.0   QSO RLoud flat radio sp.   17.6
12                           7202.0   QSO RLoud flat radio sp.   16.7
13                           7099.0   QSO RLoud flat radio sp.   15.4
14                           6399.0   QSO RLoud flat radio sp.   18.5
15                           6362.0   QSO RLoud flat radio sp.   18.2
16                           6165.0   QSO RLoud flat radio sp.   17.2
17                           6081.0   QSO RLoud flat radio sp.   18.9
18                           6051.0                    BL Lac   12.5
19                           5990.0   QSO RLoud flat radio sp.   17.8
20                           5700.0      Blazar Uncertain type    7.2
21                           5638.0   QSO RLoud flat radio sp.   15.8
22                           5622.0   QSO RLoud flat radio sp.   16.0
23                           5283.0   QSO RLoud flat radio sp.   15.7
24                           4297.0   QSO RLoud flat radio sp.   18.1
25                           4234.0      Blazar Uncertain type   18.8
26                           4218.0   QSO RLoud flat radio sp.   16.6
27                           4068.0      Blazar Uncertain type   22.0
28                           4044.0   QSO RLoud flat radio sp.   16.7
29                           4024.0   QSO RLoud flat radio sp.   17.3
...                             ...                        ...    ...
3531                            3.0                    BL Lac   19.0
3532                            3.0                    BL Lac   19.9
3533                            3.0          BL Lac Candidate   19.9
3534                            3.0                    BL Lac   19.5
3535                            3.0    BL Lac-galaxy dominated   16.7
3536                            3.0    BL Lac-galaxy dominated   18.4
3537                            3.0                    BL Lac   19.6
3538                            3.0          BL Lac Candidate   20.0
```

```
3539                                2.0                       BL Lac  19.1
3540                                2.0                       BL Lac  20.7
3541                                2.0   BL Lac-galaxy dominated  19.3
3542                                2.0                       BL Lac  19.7
3543                                2.0                       BL Lac  20.8
3544                                2.0                       BL Lac  18.6
3545                                2.0     Blazar Uncertain type  20.6
3546                                2.0   BL Lac-galaxy dominated  18.6
3547                                1.5                       BL Lac  19.1
3548                                1.0          BL Lac Candidate  18.8
3549                                0.8                       BL Lac  19.2
3550                                0.0  QSO RLoud flat radio sp.  18.4
3551                                0.0     Blazar Uncertain type   0.0
3552                                0.0     Blazar Uncertain type  19.4
3553                                0.0     Blazar Uncertain type   0.0
3554                                0.0  QSO RLoud flat radio sp.  19.8
3555                                0.0                       BL Lac  19.1
3556                                0.0     Blazar Uncertain type  18.3
3557                                0.0  QSO RLoud flat radio sp.  17.2
3558                                0.0                       BL Lac  15.8
3559                                0.0  QSO RLoud flat radio sp.  18.3
3560                                0.0                       BL Lac  20.0


     X-ray flux 0.1-2.4 keV(1.e-12 cgs) Redshift  \
0                                63.10    0.158
1                                 0.00    0.018
2                                 1.24    0.063
3                                10.40    0.056
4                                 2.20    0.695
5                                 2.42    0.353
6                                 7.80    0.859
7                                 0.69    2.507
8                                20.90    0.536
9                                 1.21    0.242
10                                0.77     0.91
11                                0.89    1.404
12                                1.26    1.037
13                                2.52    0.593
14                                0.08    0.619
15                                0.40    2.852
16                                0.56    0.152
17                                0.28    1.686
18                               10.40    0.069
19                                1.64    0.902
20                                5.43    0.002
21                                0.78    1.512
22                                1.39    1.184
23                                2.84    0.653
```

15

```
24                                          0.78    1.512
25                                          0.40     0.67
26                                          0.97    0.571
27                                          0.02    0.833
28                                          0.55     1.71
29                                          0.40    1.397
...                                          ...      ...
3531                                        2.19     0.49
3532                                        3.18    0.541
3533                                        0.40        0
3534                                        4.04        0
3535                                        3.29    0.276
3536                                        0.47     0.27
3537                                        0.18    0.531
3538                                        3.68        0
3539                                        0.21    0.338
3540                                        0.73    0.606
3541                                        0.17    0.344
3542                                        1.27        0
3543                                        0.26    0.626
3544                                        0.25        0
3545                                        0.00        0
3546                                        1.01    0.306
3547                                        0.93    0.323
3548                                        0.00    0.208
3549                                        0.57     0.43
3550                                        0.00    1.551
3551                                        0.63        0
3552                                        0.25        0
3553                                        0.00        0
3554                                        0.00    0.433
3555                                        0.00        0
3556                                        0.00        0
3557                                        0.25    2.558
3558                                        0.26        0
3559                                        0.00    1.158
3560                                        0.44        0

                                                   Label
0                             1923_187_27792_2_05239
1                              508_49_95067_41_51169
2                             2910_274_89583_-63_76339
3                              759_80_74158_-36_45856
4                             2924_277_38242_48_74617
5                    2991_291_21275_-29_241690000000002
6           3374_343_49062999999995_16_148220000000002
7                             2930_278_41638_-21_06103
8                  2014_194_04654_-5_7893099999999995
```

16

9	1137_128_72904_55_57278
10	2433_224_78158_71_67219
11	3304_336_44692000000003_-4_9503900000000005
12	3316_338_15171000000004_11_73081
13	2707_250_74504_39_81028
14	3258_331_54342_-18_594079999999998
15	678_70_07158000000001_-43_55239
16	2579_239_24528999999998_-79_23453
17	3105_309_65429_51_320190000000004
18	3252_330_68037999999996_42_27778
19	2821_263_26129_-13_08042
20	2116_201_36508_-43_01911
21	984_115_88171000000001_-67_44041999999999
22	1710_172_52938_-14_824279999999998
23	879_98_94379_-75_27133
24	586_59_87396_50_96394
25	1253_137_38953999999998_42_89625
26	600_61_39167_-13_137139999999999
27	327_31_210040000000003_15_23639
28	2639_244_45532999999998_-77_28846999999999
29	2624_243_42108_34_21331
...	...
3531	2131_202_13983000000002_11_75569
3532	2430_224_61396000000002_48_54611
3533	2850_266_63487000000003_50_469640000000005
3534	2044_195_73058_50_93842
3535	2783_259_27871_29_52253
3536	2142_202_76213_56_92828000000001
3537	2796_260_31913_60_06844
3538	2118_201_38692_-30_028640000000003
3539	233_21_1855_9_31369
3540	1025_118_84629_37_438559999999995
3541	1404_150_42671_20_80506
3542	1350_146_13471_57_59336
3543	2789_259_75975_55_40178
3544	2775_258_68975_30_607779999999998
3545	1156_129_9475_2_07614
3546	64_5_50396_0_11610999999999999
3547	1918_187_03808_-2_36006
3548	3489_353_70129_-8_577060000000001
3549	1986_192_10792_8_50583
3550	2480_228_66675_-47_80831
3551	2132_202_25475_-56_13406
3552	3511_356_34317000000004_-15_25186
3553	2721_252_56929_-50_74672
3554	1171_131_457_-55_924080000000004
3555	878_98_83712_-26_34442
3556	2083_198_76738_-53_576609999999995

```
3557                          1541_160_436_-47_66669
3558                 2123_201_70508_-52_939890000000005
3559              2786_259_39437999999996_-51_92556
3560                       2598_241_12925_-44_69222

[3561 rows x 10 columns]
```

In [12]: bzcat[['Label', col['ra'], col['dec']]].to_csv('5bzcat_Label_Ra_Dec.csv', index=False)

In [13]: from subprocess import getoutput
         print(getoutput('head 5bzcat_Label_Ra_Dec.csv'))

```
Label "RA (J2000.0)" "Dec (J2000.0)"
1923_187_27792_2_05239 187.27792 2.05239
508_49_95067_41_51169 49.95067 41.51169
2910_274_89583_-63_76339 274.89583 -63.76339
759_80_74158_-36_45856 80.74158 -36.45856
2924_277_38242_48_74617 277.38242 48.74617
2991_291_21275_-29_241690000000002 291.21275 -29.24169
3374_343_49062999999995_16_148220000000002 343.49063 16.14822
2930_278_41638_-21_06103 278.41638 -21.06103
2014_194_04654_-5_7893099999999995 194.04654 -5.78931
```

In [14]: cols_reord = bzcat.columns
         cols_reord = [cols_reord[i-1] for i in range(len(cols_reord))]

         bzcat = bzcat[cols_reord]
         bzcat.head()

```
Out[14]:                       Label  RA (J2000.0)  Dec (J2000.0)    id  \
         0   1923_187_27792_2_05239     187.27792        2.05239  1923
         1     508_49_95067_41_51169      49.95067       41.51169   508
         2  2910_274_89583_-63_76339     274.89583      -63.76339  2910
         3   759_80_74158_-36_45856      80.74158      -36.45856   759
         4   2924_277_38242_48_74617     277.38242       48.74617  2924

                Source name  Flux density 1.4/0.843GHz(mJy)    Source classification  \
         0  5BZQJ1229+0203                          54992.0  QSO RLoud flat radio sp.
         1  5BZUJ0319+4130                          22830.0      Blazar Uncertain type
         2  5BZUJ1819-6345                          19532.0      Blazar Uncertain type
         3  5BZUJ0522-3627                          15620.0      Blazar Uncertain type
         4  5BZUJ1829+4844                          13753.0      Blazar Uncertain type

            Rmag  X-ray flux 0.1-2.4 keV(1.e-12 cgs) Redshift
         0  12.9                                63.10    0.158
         1  12.3                                 0.00    0.018
         2  13.4                                 1.24    0.063
         3  14.6                                10.40    0.056
         4  16.7                                 2.20    0.695
```

18

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/bzcat/Results`, in particular the SEDs go inside `SEDtool/` in that dir.

```
In [15]: %ls work/bzcat/Results/
```

```
1000_117_15046_24_00669/   2070_197_78258_14_29628/   313_29_93062_-27_67728/
1001_117_18117_21_26253/   2071_197_94179_39_88819/   3140_317_03083_-29_18811/
1002_117_27708_45_17606/   2072_197_98233_8_89472/    3141_317_17096_14_5075/
1003_117_30833_23_22131/   2073_198_04642_48_15703/   3142_317_18637_-2_84283/
1004_117_34358_74_34489/   2074_198_07396_35_25586/   3143_317_21592_-66_62297/
1005_117_37321_74_86244/   2075_198_1315_-21_93983/   3144_317_38829_-41_17239/
1006_117_50138_18_3865/    2076_198_18062_48_47525/   3145_317_45792_-13_54611/
1007_117_58517_48_24822/   2077_198_21208_-4_41386/   3146_317_50408_-10_34925/
1008_117_637_10_35742/     2078_198_3755_2_01831/     3147_317_54033_8_16539/
1009_117_71687_12_518/     2079_198_42354_10_454/     3148_317_59425_-1_4495/
100_9_6035_41_61842/       207_18_82125_-1_45128/     3149_318_55587_-68_85064/
1010_117_74812_-67_43961/  2080_198_51487_-33_06525/  314_29_99913_-51_72631/
1011_117_78987_29_22653/   2081_198_68254_23_80744/   3150_318_74304_28_54922/
1012_117_79254_-0_78086/   2082_198_76413_-42_61381/  3151_318_82683_-14_27872/
1013_117_8545_17_51419/    2083_198_76738_-53_57661/  3152_318_87254_29_56067/
1014_117_93725_39_47156/   2084_198_80621_28_68158/   3153_319_01346_-1_14122/
1015_117_97362_33_22217/   2085_199_03329_-33_64978/  3154_319_04954_-6_47511/
1016_118_17046_37_50675/   2086_199_13742_-30_42558/  3155_319_0605_33_65567/
1017_118_25575_53_88322/   2087_199_40204_34_42108/   3156_319_12425_-55_45567/
1018_118_35254_29_35886/   2088_199_64046_-6_12328/   3157_319_33637_5_04933/
1019_118_50279_42_04672/   2089_199_80038_-12_29222/  3158_319_57246_0_22131/
101_9_62033_18_93825/      208_18_8495_-28_082/       3159_319_68017_-6_605/
1020_118_61025_-11_78803/  2090_199_87625_48_85089/   315_30_12271_27_2105/
1021_118_64925_45_77919/   2091_199_88225_14_09253/   3160_319_91621_-11_10392/
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In [16]: %ls work/bzcat/Results/SEDtool/

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0_27204_m15_85194_sedtool.txt      230_54155_31_73730_sedtool.txt
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0_73831_m0_41317_sedtool.txt	231_26216_11_12899_sedtool.txt
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170_62371_18_09062_sedtool.txt      332_96071_m37_11831_sedtool.txt
170_95492_72_50008_sedtool.txt      332_97458_18_69731_sedtool.txt
171_01071_m15_03303_sedtool.txt     333_02508_23_92800_sedtool.txt
171_01127_23_61274_sedtool.txt      333_21184_6_76915_sedtool.txt
171_02228_20_76498_sedtool.txt      333_26042_m25_49169_sedtool.txt
171_05488_51_56375_sedtool.txt      333_52371_37_65256_sedtool.txt
171_22425_49_56939_sedtool.txt      333_73485_0_33318_sedtool.txt
171_26517_21_71668_sedtool.txt      333_81667_m29_73956_sedtool.txt
171_38050_m35_95136_sedtool.txt     334_08338_35_30394_sedtool.txt
171_42625_0_01706_sedtool.txt       334_08842_m54_41331_sedtool.txt
171_46656_m7_70584_sedtool.txt      334_17796_31_04317_sedtool.txt
171_47375_26_17222_sedtool.txt      334_25333_24_36272_sedtool.txt
171_74024_45_26839_sedtool.txt      334_36779_m31_10539_sedtool.txt
171_76838_m18_95503_sedtool.txt     334_45099_2_33639_sedtool.txt
171_90221_5_92558_sedtool.txt       334_54546_15_34331_sedtool.txt
171_91723_56_83738_sedtool.txt      334_71680_m3_59357_sedtool.txt
171_99525_36_34122_sedtool.txt      334_80871_18_10989_sedtool.txt
172_05554_59_42078_sedtool.txt      334_89725_m27_31725_sedtool.txt
172_26356_37_94914_sedtool.txt      334_93612_21_34897_sedtool.txt
172_30963_37_05497_sedtool.txt      334_94696_m0_85906_sedtool.txt
172_38250_m44_59728_sedtool.txt     334_95738_26_22436_sedtool.txt
172_47054_m2_66872_sedtool.txt      334_96021_7_61402_sedtool.txt
172_52938_m14_82422_sedtool.txt     335_37233_m52_42372_sedtool.txt
172_72197_38_25512_sedtool.txt      335_72567_m17_89000_sedtool.txt
172_78978_31_23437_sedtool.txt      335_77471_m34_92975_sedtool.txt
172_81446_2_58067_sedtool.txt       335_87320_1_04082_sedtool.txt
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172_90308_m16_47594_sedtool.txt	336_40846_21_30183_sedtool.txt
173_13617_9_24114_sedtool.txt	336_43217_m11_22797_sedtool.txt
173_14321_2_62781_sedtool.txt	336_44700_m4_95037_sedtool.txt
173_18585_0_57663_sedtool.txt	336_69389_0_86974_sedtool.txt
173_23321_5_26100_sedtool.txt	336_99225_0_61819_sedtool.txt
173_26258_0_26361_sedtool.txt	337_00646_25_05086_sedtool.txt
173_31400_m25_01931_sedtool.txt	337_21920_m7_89629_sedtool.txt
173_33363_0_68136_sedtool.txt	337_39242_30_95669_sedtool.txt
173_39996_m9_08983_sedtool.txt	337_41385_m8_54556_sedtool.txt
173_68558_m17_48442_sedtool.txt	337_56375_m13_42858_sedtool.txt
173_76483_32_00433_sedtool.txt	337_65267_69_77431_sedtool.txt
173_84875_66_16139_sedtool.txt	337_66817_m39_71375_sedtool.txt
173_99269_m4_47439_sedtool.txt	337_73517_m44_27497_sedtool.txt
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174_10237_m3_50815_sedtool.txt	338_15162_11_73080_sedtool.txt
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174_47967_m17_17528_sedtool.txt	338_98400_m18_43683_sedtool.txt
174_55058_41_23133_sedtool.txt	339_03967_m17_10611_sedtool.txt
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174_87325_m15_88103_sedtool.txt	339_14208_m14_55617_sedtool.txt
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175_19643_46_36576_sedtool.txt	339_28438_m39_36031_sedtool.txt
175_53221_15_79839_sedtool.txt	339_54329_7_40389_sedtool.txt
175_77058_73_06922_sedtool.txt	339_55283_m39_67181_sedtool.txt
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175_80059_61_36952_sedtool.txt	339_58046_4_20878_sedtool.txt
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176_47342_m69_90050_sedtool.txt	33_27154_12_21969_sedtool.txt
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176_60913_m28_98847_sedtool.txt	33_57500_51_74792_sedtool.txt
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176_88917_m67_89494_sedtool.txt	340_85992_m25_74175_sedtool.txt
176_96486_m7_41138_sedtool.txt	340_97804_20_35097_sedtool.txt
176_97867_22_09286_sedtool.txt	341_03821_m29_91239_sedtool.txt
176_99901_26_59513_sedtool.txt	341_05312_40_95417_sedtool.txt

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177_23284_m4_06932_sedtool.txt      341_47350_5_01583_sedtool.txt
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187_68721_m31_35647_sedtool.txt   355_73581_m3_37397_sedtool.txt
187_73150_m11_65278_sedtool.txt   355_80163_23_66267_sedtool.txt
187_84015_14_35681_sedtool.txt   355_82833_m28_97553_sedtool.txt
187_86486_4_30060_sedtool.txt   355_89083_34_66686_sedtool.txt
187_88058_64_23872_sedtool.txt   355_92812_15_71750_sedtool.txt
187_93163_28_79714_sedtool.txt   356_09396_29_87242_sedtool.txt
187_99981_m2_40144_sedtool.txt   356_30221_m15_91897_sedtool.txt
188_14496_48_35917_sedtool.txt   356_34317_m15_25186_sedtool.txt
188_26693_m0_52619_sedtool.txt   356_41092_m14_82481_sedtool.txt
188_27152_17_02575_sedtool.txt   356_60654_80_13211_sedtool.txt
188_30471_m10_42189_sedtool.txt   356_63175_40_40453_sedtool.txt
188_42222_m1_73986_sedtool.txt   356_65347_9_51259_sedtool.txt
188_45507_50_43954_sedtool.txt   356_77092_51_70483_sedtool.txt
188_55555_47_89761_sedtool.txt   356_83204_m51_17689_sedtool.txt

188_57221_m38_94383_sedtool.txt	356_93188_m49_77439_sedtool.txt
188_66225_39_17967_sedtool.txt	357_01092_m16_52017_sedtool.txt
188_70721_m24_54247_sedtool.txt	357_04896_m4_43233_sedtool.txt
188_77411_36_35535_sedtool.txt	357_18650_m58_78658_sedtool.txt
188_79512_m14_05658_sedtool.txt	357_33675_38_82156_sedtool.txt
188_87018_17_01023_sedtool.txt	357_33781_5_57783_sedtool.txt
188_87741_52_47445_sedtool.txt	357_50733_19_69750_sedtool.txt
189_09594_39_00030_sedtool.txt	357_50846_11_11019_sedtool.txt
189_27329_30_33478_sedtool.txt	357_57501_m5_99104_sedtool.txt
189_41269_62_97849_sedtool.txt	357_59754_m24_60147_sedtool.txt
189_51017_7_38939_sedtool.txt	357_65279_36_36919_sedtool.txt
189_53092_m11_99014_sedtool.txt	357_94171_m22_05267_sedtool.txt
189_53243_53_43218_sedtool.txt	358_02425_17_82047_sedtool.txt
189_60150_m19_98706_sedtool.txt	358_20375_39_79894_sedtool.txt
189_60835_44_52698_sedtool.txt	358_22121_m28_43128_sedtool.txt
189_63021_54_11446_sedtool.txt	358_29783_m27_72375_sedtool.txt
189_84470_41_54766_sedtool.txt	358_33738_m14_98311_sedtool.txt
189_84772_7_50451_sedtool.txt	358_42621_55_31131_sedtool.txt
189_88649_4_71817_sedtool.txt	358_44762_m30_63008_sedtool.txt
189_92933_m10_39128_sedtool.txt	358_52312_m9_96357_sedtool.txt
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18_04212_20_33889_sedtool.txt	358_54629_m41_10531_sedtool.txt
18_05388_35_37225_sedtool.txt	358_59050_45_88456_sedtool.txt
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18_07925_m66_57939_sedtool.txt	358_71533_m4_08421_sedtool.txt
18_13733_m32_02764_sedtool.txt	358_85771_m33_96589_sedtool.txt
18_20975_32_13819_sedtool.txt	359_00233_m68_33439_sedtool.txt
18_31617_m35_86361_sedtool.txt	359_01671_m0_39830_sedtool.txt
18_36267_49_80667_sedtool.txt	359_05283_40_61347_sedtool.txt
18_41664_2_36922_sedtool.txt	359_09508_81_88128_sedtool.txt
18_47738_13_41467_sedtool.txt	359_27779_4_81575_sedtool.txt
18_71967_13_42683_sedtool.txt	359_34938_m24_85089_sedtool.txt
18_75767_m34_00736_sedtool.txt	359_35475_m1_87097_sedtool.txt
18_82129_m1_45126_sedtool.txt	359_37367_m17_30147_sedtool.txt
18_84946_m28_08200_sedtool.txt	359_38021_m11_42747_sedtool.txt
18_91884_3_94535_sedtool.txt	359_45675_m53_17925_sedtool.txt
18_94212_25_33181_sedtool.txt	359_50896_m45_92181_sedtool.txt
18_94342_m30_82197_sedtool.txt	359_54533_m10_33586_sedtool.txt
190_28940_34_01055_sedtool.txt	359_62021_4_50689_sedtool.txt
190_42248_34_67530_sedtool.txt	359_69217_19_92233_sedtool.txt
190_45113_6_60038_sedtool.txt	359_74942_39_37453_sedtool.txt
190_45588_m14_93306_sedtool.txt	359_78150_m30_62783_sedtool.txt
190_58521_m16_88444_sedtool.txt	359_88821_38_84517_sedtool.txt
190_63688_76_57367_sedtool.txt	359_89779_m31_56164_sedtool.txt
190_71400_37_85000_sedtool.txt	35_11838_m13_08881_sedtool.txt
190_78742_52_21253_sedtool.txt	35_14646_m21_85336_sedtool.txt
190_79475_m29_72286_sedtool.txt	35_20197_m8_71400_sedtool.txt
190_80290_36_46220_sedtool.txt	35_21333_25_15744_sedtool.txt

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190_89229_m39_69792_sedtool.txt     35_22579_m63_50547_sedtool.txt
190_89375_m6_22250_sedtool.txt      35_27283_35_93711_sedtool.txt
190_93758_74_71022_sedtool.txt      35_50321_m16_25458_sedtool.txt
190_98242_40_73292_sedtool.txt      35_66450_43_03567_sedtool.txt
191_10538_4_74989_sedtool.txt       35_73500_m34_69117_sedtool.txt
191_18487_16_27275_sedtool.txt      35_80950_m11_29403_sedtool.txt
191_29175_57_16503_sedtool.txt      35_87863_m53_79442_sedtool.txt
191_39075_2_47367_sedtool.txt       35_93229_m16_94381_sedtool.txt
191_50000_43_77418_sedtool.txt      36_11472_6_99052_sedtool.txt
191_51056_1_22192_sedtool.txt       36_26933_18_78011_sedtool.txt
191_51763_m7_51295_sedtool.txt      36_36396_37_17433_sedtool.txt
191_69542_m25_79672_sedtool.txt     36_55717_9_62397_sedtool.txt
191_75306_44_38860_sedtool.txt      36_66175_m44_68906_sedtool.txt
191_94470_10_38138_sedtool.txt      36_78042_39_52781_sedtool.txt
192_07822_58_34137_sedtool.txt      36_81912_2_03327_sedtool.txt
192_09578_m6_53606_sedtool.txt      36_88371_m8_80338_sedtool.txt
192_10792_8_50583_sedtool.txt       36_91888_m30_43475_sedtool.txt
192_11758_m45_99606_sedtool.txt     37_09000_m55_76758_sedtool.txt
192_13958_51_46413_sedtool.txt      37_14050_m37_33231_sedtool.txt
192_44485_37_13000_sedtool.txt      37_20850_67_35053_sedtool.txt
192_56481_31_93318_sedtool.txt      37_22173_m3_62707_sedtool.txt
192_63571_2_27558_sedtool.txt       37_36871_m36_73239_sedtool.txt
192_81046_m17_28669_sedtool.txt     37_39587_m78_79606_sedtool.txt
192_82452_10_65208_sedtool.txt      37_49557_m10_52185_sedtool.txt
192_89483_m29_97867_sedtool.txt     37_69046_40_54808_sedtool.txt
192_91346_m35_31100_sedtool.txt     37_79887_m47_77025_sedtool.txt
193_10304_64_86067_sedtool.txt      37_82021_m58_68475_sedtool.txt
193_14404_8_82889_sedtool.txt       37_94117_13_38186_sedtool.txt
193_14442_29_62572_sedtool.txt      37_96583_m39_59633_sedtool.txt
193_24329_m33_33322_sedtool.txt     38_20192_20_28783_sedtool.txt
193_25377_38_44054_sedtool.txt      38_33508_34_71539_sedtool.txt
193_29967_53_01996_sedtool.txt      38_45505_2_49036_sedtool.txt
193_42217_m39_53325_sedtool.txt     38_77671_m47_62008_sedtool.txt
193_44596_3_44179_sedtool.txt       38_90304_m29_64594_sedtool.txt
193_49723_62_71594_sedtool.txt      39_12983_m29_89881_sedtool.txt
193_49737_m40_99225_sedtool.txt     39_22133_m61_60447_sedtool.txt
193_63864_22_18422_sedtool.txt      39_30857_5_44717_sedtool.txt
193_65521_m20_01569_sedtool.txt     39_39158_m36_05756_sedtool.txt
193_65936_11_68498_sedtool.txt      39_46838_28_80264_sedtool.txt
193_73958_m44_41572_sedtool.txt     39_55702_m9_40879_sedtool.txt
193_74945_3_68043_sedtool.txt       39_63512_m31_28300_sedtool.txt
193_88225_18_29747_sedtool.txt      39_66204_16_61628_sedtool.txt
193_93786_61_41410_sedtool.txt      39_75125_m76_44550_sedtool.txt
193_98093_38_80320_sedtool.txt      39_93950_m2_57806_sedtool.txt
194_04490_m5_78673_sedtool.txt      39_96356_4_27265_sedtool.txt
194_06646_m11_77689_sedtool.txt     3_14092_m16_46847_sedtool.txt
194_10625_m21_92258_sedtool.txt     3_19729_33_89406_sedtool.txt
194_16414_6_15225_sedtool.txt       3_24946_m39_90717_sedtool.txt
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194_38302_24_21112_sedtool.txt	3_48379_m18_90186_sedtool.txt
194_48841_32_49155_sedtool.txt	3_48479_19_17833_sedtool.txt
194_49537_m31_92133_sedtool.txt	3_54675_m50_37575_sedtool.txt
194_58670_61_34600_sedtool.txt	3_58212_8_90045_sedtool.txt
194_65954_m18_00086_sedtool.txt	3_65817_m30_98856_sedtool.txt
194_69938_m4_79422_sedtool.txt	3_67471_58_03406_sedtool.txt
194_72696_m22_32531_sedtool.txt	3_76050_m18_21375_sedtool.txt
194_72737_1_57814_sedtool.txt	3_86646_35_61125_sedtool.txt
194_78521_m23_17742_sedtool.txt	3_91654_17_01139_sedtool.txt
194_80263_m24_60153_sedtool.txt	40_02187_42_27292_sedtool.txt
195_03550_17_92711_sedtool.txt	40_17842_18_80003_sedtool.txt
195_07321_63_74450_sedtool.txt	40_23396_m5_07833_sedtool.txt
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195_11893_28_50283_sedtool.txt	40_58675_26_89381_sedtool.txt
195_13654_53_85350_sedtool.txt	40_60113_17_71633_sedtool.txt
195_17188_50_49356_sedtool.txt	40_62150_11_01686_sedtool.txt
195_17642_m32_88603_sedtool.txt	40_76216_0_77428_sedtool.txt
195_24754_m32_43781_sedtool.txt	40_80196_m5_84869_sedtool.txt
195_37146_33_61675_sedtool.txt	40_87825_71_33822_sedtool.txt
195_38584_46_56749_sedtool.txt	41_16829_m58_33175_sedtool.txt
195_44031_40_94022_sedtool.txt	41_32017_24_09308_sedtool.txt
195_44296_44_27206_sedtool.txt	41_35379_m11_12133_sedtool.txt
195_57168_48_32153_sedtool.txt	41_50000_m46_85511_sedtool.txt
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195_73080_50_93842_sedtool.txt	41_54929_18_39175_sedtool.txt
195_76344_24_56551_sedtool.txt	41_74362_m12_60878_sedtool.txt
195_80775_m10_85475_sedtool.txt	42_03217_m16_52956_sedtool.txt
195_91783_m46_35064_sedtool.txt	42_32504_6_33108_sedtool.txt
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196_17989_m3_76422_sedtool.txt	42_57862_m21_49381_sedtool.txt
196_25067_78_91000_sedtool.txt	42_65746_17_20258_sedtool.txt
196_37945_38_92299_sedtool.txt	42_85929_m60_00175_sedtool.txt
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196_51397_55_49548_sedtool.txt	42_99675_37_57178_sedtool.txt
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196_81321_m32_13292_sedtool.txt	43_31505_m1_40149_sedtool.txt
196_90725_m42_99447_sedtool.txt	43_33767_0_10001_sedtool.txt
197_09881_35_77701_sedtool.txt	43_37167_m54_69733_sedtool.txt
197_21378_47_49860_sedtool.txt	43_49000_51_04903_sedtool.txt
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197_35637_43_08488_sedtool.txt	43_67825_39_52597_sedtool.txt
197_39135_11_90683_sedtool.txt	44_05350_m21_62475_sedtool.txt
197_45196_m39_80919_sedtool.txt	44_17775_m33_25586_sedtool.txt
197_55179_m11_96303_sedtool.txt	44_42088_m12_20039_sedtool.txt
197_61875_0_73581_sedtool.txt	44_44013_18_78483_sedtool.txt
197_61920_32_34848_sedtool.txt	44_53038_20_50036_sedtool.txt

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197_72325_46_89783_sedtool.txt      44_55846_m39_16144_sedtool.txt
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197_78254_14_29628_sedtool.txt      44_86275_7_79422_sedtool.txt
197_94189_39_88818_sedtool.txt      44_87354_19_42919_sedtool.txt
197_98227_8_89472_sedtool.txt       45_26612_34_68408_sedtool.txt
198_04643_48_15701_sedtool.txt      45_27804_m18_20489_sedtool.txt
198_07401_35_25590_sedtool.txt      45_34835_1_31016_sedtool.txt
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198_76738_m53_57661_sedtool.txt     46_07400_m70_12831_sedtool.txt
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199_80021_m12_29225_sedtool.txt     46_89246_m48_95322_sedtool.txt
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19_45325_m21_18519_sedtool.txt      47_86088_m77_02622_sedtool.txt
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200_29671_22_27006_sedtool.txt	49_14125_m22_26986_sedtool.txt
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200_61554_m84_32614_sedtool.txt	49_95067_41_51169_sedtool.txt
200_63121_13_74162_sedtool.txt	49_96354_19_02536_sedtool.txt
200_65367_m9_62700_sedtool.txt	49_96542_18_76014_sedtool.txt
200_69647_32_26971_sedtool.txt	4_04617_m0_25346_sedtool.txt
200_73197_39_20220_sedtool.txt	4_28546_81_58564_sedtool.txt
200_75420_4_66423_sedtool.txt	4_39512_m5_20983_sedtool.txt
200_82142_m34_12011_sedtool.txt	4_40371_14_85053_sedtool.txt
200_83121_m30_63517_sedtool.txt	4_49579_m27_80586_sedtool.txt
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202_58957_44_68631_sedtool.txt	52_78721_m25_41200_sedtool.txt
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219_94221_46_05306_sedtool.txt	81_38038_m45_96539_sedtool.txt
219_94571_49_96821_sedtool.txt	81_47871_m43_30033_sedtool.txt
219_98696_m15_53072_sedtool.txt	81_56867_m48_51047_sedtool.txt
21_12704_32_82994_sedtool.txt	81_88625_3_52542_sedtool.txt
21_18550_9_31369_sedtool.txt	82_14667_m58_34497_sedtool.txt
21_21029_m6_41692_sedtool.txt	82_47300_m5_32822_sedtool.txt
21_23250_28_08636_sedtool.txt	82_53325_m25_05833_sedtool.txt
21_23896_m51_22125_sedtool.txt	82_73517_13_53203_sedtool.txt
21_27295_1_77416_sedtool.txt	83_00883_m38_81536_sedtool.txt
21_32846_m25_81789_sedtool.txt	83_03129_m3_11861_sedtool.txt
21_37021_m0_09889_sedtool.txt	83_16254_7_54542_sedtool.txt
21_56246_m22_37578_sedtool.txt	83_31617_48_38136_sedtool.txt
21_67825_25_98350_sedtool.txt	83_40408_m83_40942_sedtool.txt
21_73729_33_12428_sedtool.txt	83_41950_m46_53792_sedtool.txt
21_79062_m81_13756_sedtool.txt	83_43450_m72_27317_sedtool.txt
21_79613_m1_86495_sedtool.txt	83_57271_m37_79019_sedtool.txt
21_81792_m8_35809_sedtool.txt	83_64796_m61_10217_sedtool.txt
21_96175_m0_22957_sedtool.txt	83_80108_m2_65200_sedtool.txt
220_09304_38_33711_sedtool.txt	84_11858_m34_01972_sedtool.txt
220_22059_6_17119_sedtool.txt	84_12129_m33_71733_sedtool.txt
220_33283_m33_05678_sedtool.txt	84_45321_m57_30803_sedtool.txt
220_34983_m34_94611_sedtool.txt	84_54308_m39_14558_sedtool.txt
220_43921_m15_39342_sedtool.txt	84_70496_m44_07061_sedtool.txt
220_50054_32_57231_sedtool.txt	84_77271_m34_45317_sedtool.txt
220_52975_43_81019_sedtool.txt	84_88342_m15_84161_sedtool.txt
220_70113_12_01121_sedtool.txt	84_92646_14_56267_sedtool.txt
220_89337_25_26619_sedtool.txt	84_97629_m28_66558_sedtool.txt
220_98710_25_02903_sedtool.txt	85_05971_25_13203_sedtool.txt
220_98788_m39_14353_sedtool.txt	85_12488_58_39431_sedtool.txt
220_99425_63_54069_sedtool.txt	85_18892_m54_30483_sedtool.txt
221_14531_63_60169_sedtool.txt	85_31729_53_20686_sedtool.txt
221_27596_m3_43693_sedtool.txt	85_40875_m5_69719_sedtool.txt
221_28996_m16_23628_sedtool.txt	85_98671_m55_53442_sedtool.txt
221_31868_9_97675_sedtool.txt	86_03150_m22_68628_sedtool.txt
221_32025_0_65953_sedtool.txt	86_67437_m64_25589_sedtool.txt
221_47242_m16_48378_sedtool.txt	86_73650_m22_08214_sedtool.txt
221_63561_41_45838_sedtool.txt	86_95696_m67_46761_sedtool.txt
221_64732_17_35204_sedtool.txt	87_43113_m52_77297_sedtool.txt
222_00241_36_14213_sedtool.txt	87_53883_m57_53981_sedtool.txt
222_06283_m16_34003_sedtool.txt	87_66654_m32_27572_sedtool.txt

222_11992_76_01983_sedtool.txt	87_98025_m19_15583_sedtool.txt
222_20979_4_03886_sedtool.txt	88_38808_m20_57164_sedtool.txt
222_21317_m11_37103_sedtool.txt	88_50338_68_96511_sedtool.txt
222_33630_42_35039_sedtool.txt	88_87833_39_81350_sedtool.txt
222_38644_27_77265_sedtool.txt	89_07804_m43_86278_sedtool.txt
222_41650_m21_65686_sedtool.txt	89_26963_24_23203_sedtool.txt
222_51025_0_27486_sedtool.txt	89_51058_m13_29478_sedtool.txt
222_56521_m36_32728_sedtool.txt	89_52542_m38_64153_sedtool.txt
222_62988_9_17444_sedtool.txt	89_69237_m74_98508_sedtool.txt
222_74996_52_01989_sedtool.txt	89_79767_m45_49375_sedtool.txt
222_76046_m23_49197_sedtool.txt	89_80575_58_06761_sedtool.txt
222_79882_58_00082_sedtool.txt	8_13762_m26_82156_sedtool.txt
222_86557_63_90535_sedtool.txt	8_13792_m28_82194_sedtool.txt
222_94708_m1_45638_sedtool.txt	8_39304_m19_35936_sedtool.txt
223_25621_10_60478_sedtool.txt	8_68121_27_90714_sedtool.txt
223_32721_35_09428_sedtool.txt	8_81130_15_25111_sedtool.txt
223_43421_m25_37986_sedtool.txt	8_96929_59_83489_sedtool.txt
223_47329_26_80928_sedtool.txt	90_13079_m39_61733_sedtool.txt
223_60625_m37_79397_sedtool.txt	90_26208_38_64133_sedtool.txt
223_61277_51_40938_sedtool.txt	90_29550_m70_60258_sedtool.txt
223_63465_29_93291_sedtool.txt	90_44729_23_41486_sedtool.txt
223_63708_m40_20903_sedtool.txt	90_45296_m27_60611_sedtool.txt
223_69454_m25_08681_sedtool.txt	90_47013_m20_07922_sedtool.txt
223_78100_2_84447_sedtool.txt	90_78804_17_70486_sedtool.txt
224_01510_50_80721_sedtool.txt	90_99050_m17_27450_sedtool.txt
224_36146_m35_65253_sedtool.txt	91_03592_m48_28986_sedtool.txt
224_40888_7_83186_sedtool.txt	91_10421_m42_42519_sedtool.txt
224_43575_m28_32239_sedtool.txt	91_22967_24_49861_sedtool.txt
224_60908_48_54419_sedtool.txt	91_68146_m7_40839_sedtool.txt
224_68663_37_33933_sedtool.txt	91_73962_m0_41597_sedtool.txt
224_74623_4_27413_sedtool.txt	91_80954_m25_31653_sedtool.txt
224_78179_71_67219_sedtool.txt	91_84675_47_66311_sedtool.txt
224_86979_m18_17922_sedtool.txt	91_96950_67_34878_sedtool.txt
224_89788_44_70219_sedtool.txt	91_99892_m8_58061_sedtool.txt
224_95285_31_68680_sedtool.txt	92_00629_m15_34358_sedtool.txt
224_99365_33_61710_sedtool.txt	92_24875_m22_33942_sedtool.txt
225_20279_47_85433_sedtool.txt	92_31258_m2_79839_sedtool.txt
225_25765_22_63514_sedtool.txt	92_41642_m6_25161_sedtool.txt
225_27604_55_46411_sedtool.txt	92_42083_m15_71125_sedtool.txt
225_41871_m38_47169_sedtool.txt	92_57467_m18_79439_sedtool.txt
225_53692_25_47572_sedtool.txt	92_62575_m60_97678_sedtool.txt
225_64155_33_84884_sedtool.txt	92_66163_m23_02939_sedtool.txt
225_91950_m15_68828_sedtool.txt	93_11850_m43_63039_sedtool.txt
225_94996_47_99194_sedtool.txt	93_12338_m31_64922_sedtool.txt
226_03136_m2_80466_sedtool.txt	93_21329_41_37706_sedtool.txt
226_10050_8_22767_sedtool.txt	93_43112_71_12422_sedtool.txt
226_10407_10_49412_sedtool.txt	93_49033_13_11269_sedtool.txt
226_25983_m34_54922_sedtool.txt	93_57171_m25_61486_sedtool.txt

```
226_27695_3_44190_sedtool.txt       93_59946_60_77272_sedtool.txt
226_53981_37_51415_sedtool.txt      93_83029_m31_28936_sedtool.txt
226_57346_43_57042_sedtool.txt      94_25862_m22_00783_sedtool.txt
226_60300_83_32444_sedtool.txt      94_32054_57_02131_sedtool.txt
226_65456_m5_66813_sedtool.txt      94_39033_m17_25614_sedtool.txt
226_65517_m40_13328_sedtool.txt     94_48762_78_26917_sedtool.txt
226_68375_49_56550_sedtool.txt      94_53421_46_33806_sedtool.txt
226_68524_8_23349_sedtool.txt       94_62825_m78_71761_sedtool.txt
226_71371_42_65580_sedtool.txt      94_76704_m11_68181_sedtool.txt
226_72421_2_31790_sedtool.txt       95_13379_m25_25486_sedtool.txt
226_77000_m16_87506_sedtool.txt     95_44929_17_79286_sedtool.txt
226_99890_4_25336_sedtool.txt       95_45608_m34_19650_sedtool.txt
227_09482_56_07365_sedtool.txt      95_49013_37_84917_sedtool.txt
227_09887_33_78351_sedtool.txt      95_61892_m19_45506_sedtool.txt
227_14867_m15_80872_sedtool.txt     95_71750_33_43631_sedtool.txt
227_17542_27_15134_sedtool.txt      95_78163_m64_60619_sedtool.txt
227_39817_m43_67533_sedtool.txt     95_88200_m44_21722_sedtool.txt
227_44978_55_93813_sedtool.txt      95_90821_m52_96583_sedtool.txt
227_51235_57_04545_sedtool.txt      96_07917_38_94686_sedtool.txt
227_67158_33_58458_sedtool.txt      96_18717_m32_51489_sedtool.txt
227_72330_m5_71858_sedtool.txt      96_32612_44_66717_sedtool.txt
227_92189_5_30262_sedtool.txt       96_46708_m54_64744_sedtool.txt
227_96004_m32_71533_sedtool.txt     97_23883_m62_81239_sedtool.txt
228_06390_2_05797_sedtool.txt       97_34908_m19_98878_sedtool.txt
228_21058_m9_10025_sedtool.txt      97_72454_m13_39292_sedtool.txt
228_34050_m32_15897_sedtool.txt     97_74788_m24_11258_sedtool.txt
228_43700_m10_20008_sedtool.txt     97_79996_m41_90747_sedtool.txt
228_48738_m21_24931_sedtool.txt     97_83425_m14_17550_sedtool.txt
228_64061_19_05544_sedtool.txt      97_89467_53_19100_sedtool.txt
228_65267_44_83446_sedtool.txt      97_99950_m54_08522_sedtool.txt
228_66675_m47_80831_sedtool.txt     98_02717_m26_23689_sedtool.txt
228_86123_59_58146_sedtool.txt      98_12812_32_01472_sedtool.txt
228_98412_24_43898_sedtool.txt      98_36150_m22_38964_sedtool.txt
229_07533_m15_39553_sedtool.txt     98_83708_m26_34442_sedtool.txt
229_16752_0_25059_sedtool.txt       98_93771_m75_27092_sedtool.txt
229_17330_29_30265_sedtool.txt      99_00246_m21_22006_sedtool.txt
229_23660_19_53692_sedtool.txt      99_83704_m33_76669_sedtool.txt
229_32146_13_54011_sedtool.txt      99_84121_73_41619_sedtool.txt
229_42438_m24_37222_sedtool.txt     9_02896_m9_54156_sedtool.txt
229_44812_65_42322_sedtool.txt      9_31175_m21_75686_sedtool.txt
229_66216_40_75003_sedtool.txt      9_34804_21_69814_sedtool.txt
22_03362_49_01844_sedtool.txt       9_46192_12_63884_sedtool.txt
22_17221_44_65500_sedtool.txt       9_53533_0_22683_sedtool.txt
22_53712_m10_31872_sedtool.txt      9_56142_m24_98389_sedtool.txt
22_61517_8_71283_sedtool.txt        9_58666_m3_49971_sedtool.txt
22_77983_61_34250_sedtool.txt       9_60346_41_61839_sedtool.txt
22_86125_38_57756_sedtool.txt       9_62029_18_93825_sedtool.txt
230_14578_55_71578_sedtool.txt      9_77617_m9_71300_sedtool.txt
```

```
230_16570_42_18658_sedtool.txt    9_88163_m11_18414_sedtool.txt
230_18941_7_54212_sedtool.txt     9_91500_14_19931_sedtool.txt
230_20395_m3_81427_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 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.

```python
In [17]: #ra_s1 = bzcat[col['ra']].apply(lambda x:'{:.5f}'.format(x)).str.replace('.','_')
         ra_s1 = bzcat[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 = bzcat[col['dec']].apply(lambda x:'{:.5f}'.format(x)).str.replace('.','_').s
         dec_s1 = bzcat[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 = bzcat['Label']

In [18]: from os import path
         from glob import glob
         seds = [path.basename(p) for p in glob('work/bzcat/Results/SEDtool/*_sedtool.txt')]
         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 [19]: 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 [20]: df1.head()

Out[20]:        ra_1     dec_1                            ids
         0   187_277    2_052     1923_187_27792_2_05239
         1    49_950   41_511      508_49_95067_41_51169
```

```
2   274_895   m63_763    2910_274_89583_-63_76339
3    80_741   m36_458     759_80_74158_-36_45856
4   277_382    48_746    2924_277_38242_48_74617
```

In [21]: df2.head()

Out[21]:   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_325   m7_774   0_32511_m7_77410_sedtool.txt
         4   0_339   m0_194   0_33950_m0_19442_sedtool.txt

In [22]: 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 [23]: 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 [24]: df3 = df1.merge(df2, left_on='radec1', right_on='radec2', how='inner')
         df3

Out[24]:   ra_1   dec_1   ids \
         0   49_950   41_511   508_49_95067_41_51169
         1   80_741   m36_458   759_80_74158_-36_45856
         2   277_382   48_746   2924_277_38242_48_74617
         3   291_212   m29_241   2991_291_21275_-29_241690000000002
         4   343_490   16_148   3374_343_49062999999995_16_148220000000002
         5   278_416   m21_061   2930_278_41638_-21_06103
         6   224_781   71_672   2433_224_78158_71_67219
         7   338_151   11_730   3316_338_15171000000004_11_73081
         8   331_543   m18_594   3258_331_54342_-18_594079999999998
         9   70_071   m43_552   678_70_07158000000001_-43_55239
         10   309_654   51_320   3105_309_65429_51_320190000000004
         11   330_680   42_277   3252_330_68037999999996_42_27778
         12   263_261   m13_080   2821_263_26129_-13_08042
         13   172_529   m14_824   1710_172_52938_-14_824279999999998
         14   137_389   42_896   1253_137_38953999999998_42_89625
         15   61_391   m13_137   600_61_39167_-13_137139999999999
         16   31_210   15_236   327_31_210040000000003_15_23639
         17   243_421   34_213   2624_243_42108_34_21331
         18   291_952   73_967   2999_291_95207999999997_73_96710999999999
         19   227_723   m5_718   2470_227_72329_-5_718719999999999
         20   116_387   10_186   989_116_38775_10_186860000000001
         21   32_692   m51_017   345_32_6925_-51_01719
         22   324_160   0_698   3187_324_16078999999996_0_69839
         23   216_984   m42_105   2337_216_98458_-42_10539
         24   352_323   m47_505   3475_352_32375_-47_505309999999994
         25   329_526   m15_019   3242_329_52617000000004_-15_01925
```

```
26     240_530    33_448                  2590_240_53025_33_44808
27     135_570    m14_258       1225_135_57012_-14_258579999999998
28     141_762    39_039                  1306_141_76254_39_03914
29     330_812    31_760   3254_330_81242000000003_31_760640000000002
...        ...        ...                                       ...
2656   202_008    11_487          2130_202_00871_11_487110000000001
2657   155_370    38_112         1470_155_37028999999998_38_11203
2658   118_352    29_358   1018_118_35253999999999_29_358859999999996
2659   111_178    26_358          939_111_17808000000001_26_3585
2660   117_937    39_471                 1014_117_93725_39_47156
2661   128_214    33_003                 1129_128_21442_33_00306
2662   347_828    m9_772                 3424_347_82825_-9_77289
2663   242_514    45_278                  2617_242_514_45_27828
2664   170_549    43_280        1687_170_54921000000002_43_28047
2665   143_294     0_056                 1327_143_29404_0_05653
2666   202_139    11_755        2131_202_13983000000002_11_75569
2667   195_730    50_938                 2044_195_73058_50_93842
2668   202_762    56_928        2142_202_76213_56_92828000000001
2669   260_319    60_068                 2796_260_31913_60_06844
2670    21_185     9_313                   233_21_1855_9_31369
2671   118_846    37_438        1025_118_84629_37_438559999999995
2672   146_134    57_593                 1350_146_13471_57_59336
2673   129_947     2_076                  1156_129_9475_2_07614
2674   187_038    m2_360                 1918_187_03808_-2_36006
2675   353_701    m8_577        3489_353_70129_-8_577060000000001
2676   192_107     8_505                 1986_192_10792_8_50583
2677   228_666    m47_808                2480_228_66675_-47_80831
2678   202_254    m56_134                2132_202_25475_-56_13406
2679   356_343    m15_251       3511_356_34317000000004_-15_25186
2680   252_569    m50_746                2721_252_56929_-50_74672
2681    98_837    m26_344                 878_98_83712_-26_34442
2682   198_767    m53_576       2083_198_76738_-53_576609999999995
2683   201_705    m52_939       2123_201_70508_-52_939890000000005
2684   259_394    m51_925       2786_259_39437999999996_-51_92556
2685   241_129    m44_692                2598_241_12925_-44_69222

              radec1     ra_2    dec_2                    filenames  \
0      49_950_41_511    49_950   41_511    49_95067_41_51169_sedtool.txt
1     80_741_m36_458    80_741  m36_458    80_74179_m36_45833_sedtool.txt
2     277_382_48_746   277_382   48_746   277_38250_48_74631_sedtool.txt
3    291_212_m29_241   291_212  m29_241  291_21296_m29_24194_sedtool.txt
4     343_490_16_148   343_490   16_148   343_49042_16_14817_sedtool.txt
5    278_416_m21_061   278_416  m21_061  278_41658_m21_06108_sedtool.txt
6     224_781_71_672   224_781   71_672   224_78179_71_67219_sedtool.txt
7     338_151_11_730   338_151   11_730   338_15162_11_73080_sedtool.txt
8    331_543_m18_594   331_543  m18_594  331_54304_m18_59417_sedtool.txt
9     70_071_m43_552    70_071  m43_552    70_07112_m43_55250_sedtool.txt
10    309_654_51_320   309_654   51_320   309_65421_51_32031_sedtool.txt
```

11	330_680_42_277	330_680	42_277	330_68038_42_27781_sedtool.txt
12	263_261_m13_080	263_261	m13_080	263_26108_m13_08031_sedtool.txt
13	172_529_m14_824	172_529	m14_824	172_52938_m14_82422_sedtool.txt
14	137_389_42_896	137_389	42_896	137_38957_42_89626_sedtool.txt
15	61_391_m13_137	61_391	m13_137	61_39142_m13_13733_sedtool.txt
16	31_210_15_236	31_210	15_236	31_21000_15_23644_sedtool.txt
17	243_421_34_213	243_421	34_213	243_42107_34_21329_sedtool.txt
18	291_952_73_967	291_952	73_967	291_95221_73_96725_sedtool.txt
19	227_723_m5_718	227_723	m5_718	227_72330_m5_71858_sedtool.txt
20	116_387_10_186	116_387	10_186	116_38792_10_18692_sedtool.txt
21	32_692_m51_017	32_692	m51_017	32_69200_m51_01728_sedtool.txt
22	324_160_0_698	324_160	0_698	324_16074_0_69843_sedtool.txt
23	216_984_m42_105	216_984	m42_105	216_98425_m42_10517_sedtool.txt
24	352_323_m47_505	352_323	m47_505	352_32392_m47_50533_sedtool.txt
25	329_526_m15_019	329_526	m15_019	329_52625_m15_01919_sedtool.txt
26	240_530_33_448	240_530	33_448	240_53025_33_44808_sedtool.txt
27	135_570_m14_258	135_570	m14_258	135_57021_m14_25844_sedtool.txt
28	141_762_39_039	141_762	39_039	141_76260_39_03909_sedtool.txt
29	330_812_31_760	330_812	31_760	330_81217_31_76075_sedtool.txt
...	...	...	...	...
2656	202_008_11_487	202_008	11_487	202_00871_11_48715_sedtool.txt
2657	155_370_38_112	155_370	38_112	155_37038_38_11204_sedtool.txt
2658	118_352_29_358	118_352	29_358	118_35250_29_35886_sedtool.txt
2659	111_178_26_358	111_178	26_358	111_17804_26_35850_sedtool.txt
2660	117_937_39_471	117_937	39_471	117_93725_39_47156_sedtool.txt
2661	128_214_33_003	128_214	33_003	128_21447_33_00301_sedtool.txt
2662	347_828_m9_772	347_828	m9_772	347_82871_m9_77293_sedtool.txt
2663	242_514_45_278	242_514	45_278	242_51416_45_27822_sedtool.txt
2664	170_549_43_280	170_549	43_280	170_54926_43_28040_sedtool.txt
2665	143_294_0_056	143_294	0_056	143_29406_0_05666_sedtool.txt
2666	202_139_11_755	202_139	11_755	202_13989_11_75565_sedtool.txt
2667	195_730_50_938	195_730	50_938	195_73080_50_93842_sedtool.txt
2668	202_762_56_928	202_762	56_928	202_76210_56_92836_sedtool.txt
2669	260_319_60_068	260_319	60_068	260_31913_60_06844_sedtool.txt
2670	21_185_9_313	21_185	9_313	21_18550_9_31369_sedtool.txt
2671	118_846_37_438	118_846	37_438	118_84626_37_43839_sedtool.txt
2672	146_134_57_593	146_134	57_593	146_13433_57_59338_sedtool.txt
2673	129_947_2_076	129_947	2_076	129_94746_2_07614_sedtool.txt
2674	187_038_m2_360	187_038	m2_360	187_03812_m2_36030_sedtool.txt
2675	353_701_m8_577	353_701	m8_577	353_70125_m8_57706_sedtool.txt
2676	192_107_8_505	192_107	8_505	192_10792_8_50583_sedtool.txt
2677	228_666_m47_808	228_666	m47_808	228_66675_m47_80831_sedtool.txt
2678	202_254_m56_134	202_254	m56_134	202_25475_m56_13406_sedtool.txt
2679	356_343_m15_251	356_343	m15_251	356_34317_m15_25186_sedtool.txt
2680	252_569_m50_746	252_569	m50_746	252_56925_m50_74672_sedtool.txt
2681	98_837_m26_344	98_837	m26_344	98_83708_m26_34442_sedtool.txt
2682	198_767_m53_576	198_767	m53_576	198_76738_m53_57661_sedtool.txt
2683	201_705_m52_939	201_705	m52_939	201_70504_m52_93989_sedtool.txt

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2684   259_394_m51_925   259_394   m51_925   259_39438_m51_92556_sedtool.txt
2685   241_129_m44_692   241_129   m44_692   241_12925_m44_69222_sedtool.txt


                 radec2
0         49_950_41_511
1         80_741_m36_458
2        277_382_48_746
3       291_212_m29_241
4        343_490_16_148
5       278_416_m21_061
6        224_781_71_672
7        338_151_11_730
8       331_543_m18_594
9        70_071_m43_552
10       309_654_51_320
11       330_680_42_277
12      263_261_m13_080
13      172_529_m14_824
14       137_389_42_896
15       61_391_m13_137
16        31_210_15_236
17       243_421_34_213
18       291_952_73_967
19       227_723_m5_718
20       116_387_10_186
21       32_692_m51_017
22        324_160_0_698
23      216_984_m42_105
24      352_323_m47_505
25      329_526_m15_019
26       240_530_33_448
27      135_570_m14_258
28       141_762_39_039
29       330_812_31_760
...                ...
2656     202_008_11_487
2657     155_370_38_112
2658     118_352_29_358
2659     111_178_26_358
2660     117_937_39_471
2661     128_214_33_003
2662      347_828_m9_772
2663     242_514_45_278
2664     170_549_43_280
2665      143_294_0_056
2666     202_139_11_755
2667     195_730_50_938
2668     202_762_56_928
```

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2669    260_319_60_068
2670      21_185_9_313
2671    118_846_37_438
2672    146_134_57_593
2673     129_947_2_076
2674    187_038_m2_360
2675    353_701_m8_577
2676     192_107_8_505
2677   228_666_m47_808
2678   202_254_m56_134
2679   356_343_m15_251
2680   252_569_m50_746
2681    98_837_m26_344
2682   198_767_m53_576
2683   201_705_m52_939
2684   259_394_m51_925
2685   241_129_m44_692

[2686 rows x 8 columns]
```

In [25]: bzcat_results = bzcat.merge(df3[['ids','filenames']], left_on='Label', right_on='ids')
         bzcat_results

```
Out[25]:                                             Label  RA (J2000.0)  Dec (J2000.0)  \
         0                         508_49_95067_41_51169      49.95067       41.51169
         1                       759_80_74158_-36_45856      80.74158      -36.45856
         2                      2924_277_38242_48_74617     277.38242       48.74617
         3             2991_291_21275_-29_241690000000002     291.21275      -29.24169
         4    3374_343_49062999999995_16_148220000000002     343.49063       16.14822
         5                      2930_278_41638_-21_06103     278.41638      -21.06103
         6                      2433_224_78158_71_67219     224.78158       71.67219
         7              3316_338_15171000000004_11_73081     338.15171       11.73081
         8              3258_331_54342_-18_594079999999998     331.54342      -18.59408
         9               678_70_07158000000001_-43_55239      70.07158      -43.55239
         10             3105_309_65429_51_320190000000004     309.65429       51.32019
         11             3252_330_68037999999996_42_27778     330.68038       42.27778
         12                     2821_263_26129_-13_08042     263.26129      -13.08042
         13            1710_172_52938_-14_824279999999998     172.52938      -14.82428
         14              1253_137_38953999999998_42_89625     137.38954       42.89625
         15              600_61_39167_-13_137139999999999      61.39167      -13.13714
         16             327_31_210040000000003_15_23639      31.21004       15.23639
         17                      2624_243_42108_34_21331     243.42108       34.21331
         18    2999_291_95207999999997_73_96710999999999     291.95208       73.96711
         19               2470_227_72329_-5_718719999999999     227.72329       -5.71872
         20              989_116_38775_10_186860000000001     116.38775       10.18686
         21                      345_32_6925_-51_01719      32.69250      -51.01719
         22              3187_324_16078999999996_0_69839     324.16079        0.69839
         23                     2337_216_98458_-42_10539     216.98458      -42.10539
```

24	3475_352_32375_-47_505309999999994	352.32375	-47.50531
25	3242_329_52617000000004_-15_01925	329.52617	-15.01925
26	2590_240_53025_33_44808	240.53025	33.44808
27	1225_135_57012_-14_258579999999998	135.57012	-14.25858
28	1306_141_76254_39_03914	141.76254	39.03914
29	3254_330_81242000000003_31_760640000000002	330.81242	31.76064
...	...	...	...
2656	2130_202_00871_11_487110000000001	202.00871	11.48711
2657	1470_155_37028999999998_38_11203	155.37029	38.11203
2658	1018_118_35253999999999_29_358859999999996	118.35254	29.35886
2659	939_111_17808000000001_26_3585	111.17808	26.35850
2660	1014_117_93725_39_47156	117.93725	39.47156
2661	1129_128_21442_33_00306	128.21442	33.00306
2662	3424_347_82825_-9_77289	347.82825	-9.77289
2663	2617_242_514_45_27828	242.51400	45.27828
2664	1687_170_54921000000002_43_28047	170.54921	43.28047
2665	1327_143_29404_0_05653	143.29404	0.05653
2666	2131_202_13983000000002_11_75569	202.13983	11.75569
2667	2044_195_73058_50_93842	195.73058	50.93842
2668	2142_202_76213_56_92828000000001	202.76213	56.92828
2669	2796_260_31913_60_06844	260.31913	60.06844
2670	233_21_1855_9_31369	21.18550	9.31369
2671	1025_118_84629_37_438559999999995	118.84629	37.43856
2672	1350_146_13471_57_59336	146.13471	57.59336
2673	1156_129_9475_2_07614	129.94750	2.07614
2674	1918_187_03808_-2_36006	187.03808	-2.36006
2675	3489_353_70129_-8_577060000000001	353.70129	-8.57706
2676	1986_192_10792_8_50583	192.10792	8.50583
2677	2480_228_66675_-47_80831	228.66675	-47.80831
2678	2132_202_25475_-56_13406	202.25475	-56.13406
2679	3511_356_34317000000004_-15_25186	356.34317	-15.25186
2680	2721_252_56929_-50_74672	252.56929	-50.74672
2681	878_98_83712_-26_34442	98.83712	-26.34442
2682	2083_198_76738_-53_576609999999995	198.76738	-53.57661
2683	2123_201_70508_-52_939890000000005	201.70508	-52.93989
2684	2786_259_39437999999996_-51_92556	259.39438	-51.92556
2685	2598_241_12925_-44_69222	241.12925	-44.69222

	id	Source name	Flux density 1.4/0.843GHz(mJy)	\
0	508	5BZUJ0319+4130	22830.0	
1	759	5BZUJ0522-3627	15620.0	
2	2924	5BZUJ1829+4844	13753.0	
3	2991	5BZQJ1924-2914	13387.0	
4	3374	5BZQJ2253+1608	12657.0	
5	2930	5BZQJ1833-2103	10896.0	
6	2433	5BZUJ1459+7140	7468.0	
7	3316	5BZQJ2232+1143	7202.0	
8	3258	5BZQJ2206-1835	6399.0	

```
9       678  5BZQJ0440-4333                                      6362.0
10      3105  5BZQJ2038+5119                                      6081.0
11      3252  5BZBJ2202+4216                                      6051.0
12      2821  5BZQJ1733-1304                                      5990.0
13      1710  5BZQJ1130-1449                                      5622.0
14      1253  5BZUJ0909+4253                                      4234.0
15       600  5BZQJ0405-1308                                      4218.0
16       327  5BZUJ0204+1514                                      4068.0
17      2624  5BZQJ1613+3412                                      4024.0
18      2999  5BZQJ1927+7358                                      3950.0
19      2470  5BZQJ1510-0543                                      3570.0
20       989  5BZQJ0745+1011                                      3506.0
21       345  5BZUJ0210-5101                                      3493.0
22      3187  5BZQJ2136+0041                                      3473.0
23      2337  5BZQJ1427-4206                                      3190.0
24      3475  5BZQJ2329-4730                                      3180.0
25      3242  5BZQJ2158-1501                                      3021.0
26      2590  5BZUJ1602+3326                                      2991.0
27      1225  5BZQJ0902-1415                                      2898.0
28      1306  5BZQJ0927+3902                                      2885.0
29      3254  5BZQJ2203+3145                                      2878.0
...      ...             ...                                         ...
2656    2130  5BZBJ1328+1129                                         4.0
2657    1470  5BZBJ1021+3806                                         4.0
2658    1018  5BZGJ0753+2921                                         4.0
2659     939  5BZBJ0724+2621                                         4.0
2660    1014  5BZBJ0751+3928                                         4.0
2661    1129  5BZBJ0832+3300                                         4.0
2662    3424  5BZGJ2311-0946                                         4.0
2663    2617  5BZBJ1610+4516                                         3.0
2664    1687  5BZBJ1122+4316                                         3.0
2665    1327  5BZUJ0933+0003                                         3.0
2666    2131  5BZBJ1328+1145                                         3.0
2667    2044  5BZBJ1302+5056                                         3.0
2668    2142  5BZGJ1331+5655                                         3.0
2669    2796  5BZBJ1721+6004                                         3.0
2670     233  5BZBJ0124+0918                                         2.0
2671    1025  5BZBJ0755+3726                                         2.0
2672    1350  5BZBJ0944+5735                                         2.0
2673    1156  5BZUJ0839+0204                                         2.0
2674    1918  5BZBJ1228-0221                                         1.5
2675    3489  5BZBJ2334-0834                                         1.0
2676    1986  5BZBJ1248+0830                                         0.8
2677    2480  5BZQJ1514-4748                                         0.0
2678    2132  5BZUJ1329-5608                                         0.0
2679    3511  5BZUJ2345-1515                                         0.0
2680    2721  5BZUJ1650-5044                                         0.0
2681     878  5BZBJ0635-2620                                         0.0
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2682  2083  5BZUJ1315-5334                              0.0
2683  2123  5BZBJ1326-5256                              0.0
2684  2786  5BZQJ1717-5155                              0.0
2685  2598  5BZBJ1604-4441                              0.0


       Source classification  Rmag  X-ray flux 0.1-2.4 keV(1.e-12 cgs)  \
0        Blazar Uncertain type  12.3                                0.00
1        Blazar Uncertain type  14.6                               10.40
2        Blazar Uncertain type  16.7                                2.20
3     QSO RLoud flat radio sp.  17.3                                2.42
4     QSO RLoud flat radio sp.  13.2                                7.80
5     QSO RLoud flat radio sp.  21.0                                0.69
6        Blazar Uncertain type  17.2                                0.77
7     QSO RLoud flat radio sp.  16.7                                1.26
8     QSO RLoud flat radio sp.  18.5                                0.08
9     QSO RLoud flat radio sp.  18.2                                0.40
10    QSO RLoud flat radio sp.  18.9                                0.28
11                     BL Lac  12.5                               10.40
12    QSO RLoud flat radio sp.  17.8                                1.64
13    QSO RLoud flat radio sp.  16.0                                1.39
14       Blazar Uncertain type  18.8                                0.40
15    QSO RLoud flat radio sp.  16.6                                0.97
16       Blazar Uncertain type  22.0                                0.02
17    QSO RLoud flat radio sp.  17.3                                0.40
18    QSO RLoud flat radio sp.  15.2                                3.66
19    QSO RLoud flat radio sp.  16.9                                0.42
20    QSO RLoud flat radio sp.  21.9                                0.26
21       Blazar Uncertain type  14.8                                0.75
22    QSO RLoud flat radio sp.  16.8                                0.98
23    QSO RLoud flat radio sp.  16.6                                0.82
24    QSO RLoud flat radio sp.  16.5                                1.84
25    QSO RLoud flat radio sp.  17.3                                0.81
26       Blazar Uncertain type  23.0                                0.16
27    QSO RLoud flat radio sp.  16.4                                0.65
28    QSO RLoud flat radio sp.  16.6                                2.13
29    QSO RLoud flat radio sp.  14.3                                3.22
...                        ...   ...                                 ...
2656                   BL Lac  18.5                                0.27
2657                   BL Lac  19.8                                0.24
2658  BL Lac-galaxy dominated  17.2                                1.29
2659         BL Lac Candidate  17.4                                0.00
2660                   BL Lac  20.5                                0.00
2661                   BL Lac  20.4                                1.54
2662  BL Lac-galaxy dominated  19.8                                0.57
2663                   BL Lac  20.0                                0.30
2664                   BL Lac  19.4                                0.00
2665     Blazar Uncertain type  20.7                                0.61
2666                   BL Lac  19.0                                2.19
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2667                        BL Lac  19.5                                    4.04
2668    BL Lac-galaxy dominated  18.4                                    0.47
2669                        BL Lac  19.6                                    0.18
2670                        BL Lac  19.1                                    0.21
2671                        BL Lac  20.7                                    0.73
2672                        BL Lac  19.7                                    1.27
2673      Blazar Uncertain type  20.6                                    0.00
2674                        BL Lac  19.1                                    0.93
2675            BL Lac Candidate  18.8                                    0.00
2676                        BL Lac  19.2                                    0.57
2677   QSO RLoud flat radio sp.  18.4                                    0.00
2678      Blazar Uncertain type   0.0                                    0.63
2679      Blazar Uncertain type  19.4                                    0.25
2680      Blazar Uncertain type   0.0                                    0.00
2681                        BL Lac  19.1                                    0.00
2682      Blazar Uncertain type  18.3                                    0.00
2683                        BL Lac  15.8                                    0.26
2684   QSO RLoud flat radio sp.  18.3                                    0.00
2685                        BL Lac  20.0                                    0.44

     Redshift                                             ids  \
0       0.018                         508_49_95067_41_51169
1       0.056                        759_80_74158_-36_45856
2       0.695                        2924_277_38242_48_74617
3       0.353              2991_291_21275_-29_241690000000002
4       0.859   3374_343_49062999999995_16_148220000000002
5       2.507                       2930_278_41638_-21_06103
6        0.91                       2433_224_78158_71_67219
7       1.037              3316_338_15171000000004_11_73081
8       0.619             3258_331_54342_-18_594079999999998
9       2.852                678_70_07158000000001_-43_55239
10      1.686              3105_309_65429_51_320190000000004
11      0.069              3252_330_68037999999996_42_27778
12      0.902                       2821_263_26129_-13_08042
13      1.184             1710_172_52938_-14_824279999999998
14       0.67              1253_137_38953999999998_42_89625
15      0.571              600_61_39167_-13_137139999999999
16      0.833              327_31_210040000000003_15_23639
17      1.397                       2624_243_42108_34_21331
18      0.302   2999_291_95207999999997_73_96710999999999
19      1.191              2470_227_72329_-5_718719999999999
20      2.624              989_116_38775_10_186860000000001
21      1.003                       345_32_6925_-51_01719
22      1.941              3187_324_16078999999996_0_69839
23      1.522                       2337_216_98458_-42_10539
24      1.302             3475_352_32375_-47_505309999999994
25      0.672             3242_329_52617000000004_-15_01925
26        1.1                       2590_240_53025_33_44808
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27      1.333            1225_135_57012_-14_258579999999998
28      0.695                    1306_141_76254_39_03914
29      0.295    3254_330_81242000000003_31_760640000000002
...     ...                                             ...
2656      0             2130_202_00871_11_487110000000001
2657    0.467              1470_155_37028999999998_38_11203
2658    0.161    1018_118_35253999999999_29_358859999999996
2659      0                  939_111_17808000000001_26_3585
2660      0                       1014_117_93725_39_47156
2661    0.672                      1129_128_21442_33_00306
2662     0.49                       3424_347_82825_-9_77289
2663    0.596                       2617_242_514_45_27828
2664      0             1687_170_54921000000002_43_28047
2665      0                       1327_143_29404_0_05653
2666     0.49            2131_202_13983000000002_11_75569
2667      0                       2044_195_73058_50_93842
2668     0.27            2142_202_76213_56_92828000000001
2669    0.531                      2796_260_31913_60_06844
2670    0.338                        233_21_1855_9_31369
2671    0.606            1025_118_84629_37_438559999999995
2672      0                       1350_146_13471_57_59336
2673      0                        1156_129_9475_2_07614
2674    0.323                      1918_187_03808_-2_36006
2675    0.208            3489_353_70129_-8_577060000000001
2676     0.43                      1986_192_10792_8_50583
2677    1.551                     2480_228_66675_-47_80831
2678      0                       2132_202_25475_-56_13406
2679      0             3511_356_34317000000004_-15_25186
2680      0                      2721_252_56929_-50_74672
2681      0                        878_98_83712_-26_34442
2682      0             2083_198_76738_-53_576609999999995
2683      0             2123_201_70508_-52_939890000000005
2684    1.158            2786_259_39437999999996_-51_92556
2685      0                      2598_241_12925_-44_69222

                             filenames
0        49_95067_41_51169_sedtool.txt
1        80_74179_m36_45833_sedtool.txt
2        277_38250_48_74631_sedtool.txt
3       291_21296_m29_24194_sedtool.txt
4        343_49042_16_14817_sedtool.txt
5       278_41658_m21_06108_sedtool.txt
6        224_78179_71_67219_sedtool.txt
7        338_15162_11_73080_sedtool.txt
8       331_54304_m18_59417_sedtool.txt
9        70_07112_m43_55250_sedtool.txt
10       309_65421_51_32031_sedtool.txt
11       330_68038_42_27781_sedtool.txt
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12      263_26108_m13_08031_sedtool.txt
13      172_52938_m14_82422_sedtool.txt
14       137_38957_42_89626_sedtool.txt
15       61_39142_m13_13733_sedtool.txt
16        31_21000_15_23644_sedtool.txt
17       243_42107_34_21329_sedtool.txt
18       291_95221_73_96725_sedtool.txt
19       227_72330_m5_71858_sedtool.txt
20       116_38792_10_18692_sedtool.txt
21        32_69200_m51_01728_sedtool.txt
22        324_16074_0_69843_sedtool.txt
23      216_98425_m42_10517_sedtool.txt
24      352_32392_m47_50533_sedtool.txt
25      329_52625_m15_01919_sedtool.txt
26       240_53025_33_44808_sedtool.txt
27      135_57021_m14_25844_sedtool.txt
28       141_76260_39_03909_sedtool.txt
29       330_81217_31_76075_sedtool.txt
...                                  ...
2656     202_00871_11_48715_sedtool.txt
2657     155_37038_38_11204_sedtool.txt
2658     118_35250_29_35886_sedtool.txt
2659     111_17804_26_35850_sedtool.txt
2660     117_93725_39_47156_sedtool.txt
2661     128_21447_33_00301_sedtool.txt
2662     347_82871_m9_77293_sedtool.txt
2663     242_51416_45_27822_sedtool.txt
2664     170_54926_43_28040_sedtool.txt
2665      143_29406_0_05666_sedtool.txt
2666     202_13989_11_75565_sedtool.txt
2667     195_73080_50_93842_sedtool.txt
2668     202_76210_56_92836_sedtool.txt
2669     260_31913_60_06844_sedtool.txt
2670       21_18550_9_31369_sedtool.txt
2671     118_84626_37_43839_sedtool.txt
2672     146_13433_57_59338_sedtool.txt
2673      129_94746_2_07614_sedtool.txt
2674     187_03812_m2_36030_sedtool.txt
2675     353_70125_m8_57706_sedtool.txt
2676      192_10792_8_50583_sedtool.txt
2677     228_66675_m47_80831_sedtool.txt
2678     202_25475_m56_13406_sedtool.txt
2679     356_34317_m15_25186_sedtool.txt
2680     252_56925_m50_74672_sedtool.txt
2681      98_83708_m26_34442_sedtool.txt
2682     198_76738_m53_57661_sedtool.txt
2683     201_70504_m52_93989_sedtool.txt
2684     259_39438_m51_92556_sedtool.txt
```

```
         2685   241_12925_m44_69222_sedtool.txt

         [2686 rows x 12 columns]
```

1.4   Check a SED

In [26]: *#pd.set_option('display.max_rows',10000)*

In [27]: filename = df3.iloc[0].filenames

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

```
49.95067 |   41.51169 |   1.400E+09 |   1.000E+00 |   3.196E-13 |   9.600E-15 |   55000.00 |   5500
49.95067 |   41.51169 |   2.418E+17 |   1.000E+00 |   1.818E-10 |   1.350E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   2.418E+17 |   1.000E+00 |   3.932E-11 |   9.050E-13 |   55000.00 |   5500
49.95067 |   41.51169 |   2.418E+17 |   1.000E+00 |   4.796E-11 |   4.350E-13 |   55000.00 |   5500
49.95067 |   41.51169 |   2.418E+17 |   1.000E+00 |   1.261E-10 |   2.800E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   2.418E+17 |   1.000E+00 |   3.076E-12 |   1.070E-13 |   55000.00 |   5500
49.95067 |   41.51169 |   4.800E+09 |   1.000E+00 |   2.251E-12 |   2.010E-13 |   55000.00 |   5500
49.95067 |   41.51169 |   4.800E+09 |   1.000E+00 |   2.034E-12 |   2.465E-13 |   55000.00 |   5500
49.95067 |   41.51169 |   4.850E+09 |   1.000E+00 |   2.402E-12 |   0.000E+00 |   55000.00 |   5500
49.95067 |   41.51169 |   1.400E+09 |   1.000E+00 |   2.968E-13 |   0.000E+00 |   55000.00 |   5500
49.95067 |   41.51169 |   3.650E+07 |   1.000E+00 |   5.880E-14 |   0.000E+00 |   55000.00 |   5500
49.95067 |   41.51169 |   1.000E+11 |   1.000E+00 |   1.111E-11 |   1.200E-13 |   55000.00 |   5500
49.95067 |   41.51169 |   1.430E+11 |   1.000E+00 |   1.215E-11 |   9.500E-14 |   55000.00 |   5500
49.95067 |   41.51169 |   4.400E+10 |   1.000E+00 |   7.845E-12 |   7.550E-14 |   55000.00 |   5500
49.95067 |   41.51169 |   7.000E+10 |   1.000E+00 |   1.039E-11 |   9.000E-14 |   55000.00 |   5500
49.95067 |   41.51169 |   1.200E+12 |   1.000E+00 |   3.444E-11 |   6.700E-13 |   55000.00 |   5500
49.95067 |   41.51169 |   8.571E+11 |   1.000E+00 |   2.290E-11 |   5.000E-13 |   55000.00 |   5500
49.95067 |   41.51169 |   6.000E+11 |   1.000E+00 |   1.765E-11 |   4.750E-13 |   55000.00 |   5500
49.95067 |   41.51169 |   1.389E+14 |   1.000E+00 |   3.010E-11 |   1.695E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   1.804E+14 |   1.000E+00 |   3.333E-11 |   2.430E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   2.427E+14 |   1.000E+00 |   3.604E-11 |   2.455E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   8.817E+13 |   1.000E+00 |   6.416E-11 |   1.360E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   6.517E+13 |   1.000E+00 |   6.647E-11 |   1.165E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   2.498E+13 |   1.000E+00 |   1.879E-10 |   2.400E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   1.363E+13 |   1.000E+00 |   3.944E-10 |   5.450E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   4.455E+14 |   1.000E+00 |   6.049E-11 |   0.000E+00 |   55000.00 |   5500
49.95067 |   41.51169 |   6.233E+14 |   1.000E+00 |   2.371E-10 |   0.000E+00 |   55000.00 |   5500
49.95067 |   41.51169 |   4.859E+14 |   1.000E+00 |   2.025E-10 |   0.000E+00 |   55000.00 |   5500
49.95067 |   41.51169 |   3.987E+14 |   1.000E+00 |   1.565E-10 |   0.000E+00 |   55000.00 |   5500
49.95067 |   41.51169 |   3.462E+14 |   1.000E+00 |   1.229E-10 |   0.000E+00 |   55000.00 |   5500
49.95067 |   41.51169 |   3.116E+14 |   1.000E+00 |   4.664E-11 |   1.585E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   8.563E+14 |   1.000E+00 |   1.268E-10 |   1.400E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   6.925E+14 |   1.000E+00 |   2.514E-10 |   2.700E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   5.550E+14 |   1.000E+00 |   2.123E-10 |   2.550E-12 |   55000.00 |   5500
49.95067 |   41.51169 |   1.138E+15 |   1.000E+00 |   8.296E-11 |   1.095E-12 |   55000.00 |   5500
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49.95067	41.51169	1.344E+15	1.000E+00	1.190E-10	1.850E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	9.318E-11	1.065E-12	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.273E-10	1.350E-12	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	2.354E-10	2.400E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	2.105E-10	2.450E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	9.530E-11	1.140E-12	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.185E-10	1.850E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.258E-10	1.250E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	7.622E-11	2.900E-13	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.232E-10	1.300E-12	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	2.630E-10	2.600E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	1.950E-10	2.400E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	8.926E-11	1.090E-12	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.133E-10	1.800E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.063E-10	1.100E-12	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.030E-10	9.000E-13	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	1.942E-10	1.550E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	1.900E-10	1.900E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	7.522E-11	7.350E-13	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.000E-10	1.260E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	7.932E-11	7.050E-13	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.249E-10	1.350E-12	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	2.401E-10	2.400E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	2.035E-10	2.450E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	8.992E-11	1.085E-12	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.196E-10	1.800E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.076E-10	1.100E-12	55000.00	5500
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49.95067	41.51169	6.925E+14	1.000E+00	3.050E-10	2.950E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	2.265E-10	2.650E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	1.014E-10	1.200E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.149E-10	1.150E-12	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.214E-10	1.400E-12	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	2.281E-10	2.400E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	1.785E-10	2.300E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	8.904E-11	1.130E-12	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.161E-10	1.750E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.097E-10	1.150E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	1.566E-10	1.100E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.724E-10	1.050E-12	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.161E-10	1.300E-12	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	2.052E-10	2.150E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	1.961E-10	2.400E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	9.238E-11	1.160E-12	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.275E-10	2.000E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.133E-10	1.200E-12	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.267E-10	1.000E-12	55000.00	5500

49.95067	41.51169	6.925E+14	1.000E+00	2.750E-10	2.050E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	1.760E-10	1.700E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	9.234E-11	8.350E-13	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.228E-10	1.250E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.068E-10	8.000E-13	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.209E-10	1.300E-12	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	2.412E-10	2.400E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	1.728E-10	2.250E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	7.749E-11	9.500E-13	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	9.948E-11	3.850E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	9.595E-11	9.800E-13	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.243E-10	1.050E-12	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	2.953E-10	2.300E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	2.201E-10	2.100E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	9.340E-11	8.600E-13	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.040E-10	1.350E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.123E-10	8.500E-13	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.205E-10	1.350E-12	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	2.885E-10	2.800E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	2.048E-10	2.450E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	9.326E-11	1.125E-12	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.323E-10	1.900E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.055E-10	1.050E-12	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.248E-10	1.400E-12	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	2.295E-10	2.450E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	2.023E-10	2.500E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	9.106E-11	1.130E-12	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.289E-10	1.850E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.118E-10	1.150E-12	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.128E-10	9.500E-13	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	2.677E-10	1.950E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	1.919E-10	1.750E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	9.250E-11	8.150E-13	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.089E-10	1.200E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.225E-10	9.000E-13	55000.00	5500
49.95067	41.51169	8.563E+14	1.000E+00	1.138E-10	1.200E-12	55000.00	5500
49.95067	41.51169	6.925E+14	1.000E+00	3.386E-10	3.050E-12	55000.00	5500
49.95067	41.51169	5.550E+14	1.000E+00	2.227E-10	2.450E-12	55000.00	5500
49.95067	41.51169	1.138E+15	1.000E+00	9.649E-11	1.090E-12	55000.00	5500
49.95067	41.51169	1.344E+15	1.000E+00	1.120E-10	1.600E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.197E-10	1.100E-12	55000.00	5500
49.95067	41.51169	1.477E+15	1.000E+00	1.603E-10	9.000E-13	55000.00	5500
49.95067	41.51169	8.715E+14	1.000E+00	8.754E-11	1.400E-13	55000.00	5500
49.95067	41.51169	1.030E+15	1.000E+00	7.554E-11	1.000E-13	55000.00	5500
49.95067	41.51169	1.298E+15	1.000E+00	5.690E-11	2.500E-13	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.196E-11	3.100E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.341E-11	2.970E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	6.451E-11	2.110E-12	55000.00	5500

49.95067	41.51169	2.825E+17	1.000E+00	8.466E-11	1.880E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	8.876E-11	2.005E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.005E-10	2.985E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	9.626E-11	3.335E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.405E-11	3.820E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.021E-10	6.980E-12	55000.00	5500
49.95067	41.51169	2.076E+18	1.000E+00	6.416E-11	1.136E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	1.658E-10	4.250E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.408E-11	2.620E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.958E-11	1.965E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.139E-10	1.850E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.322E-10	2.150E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.449E-10	3.100E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.463E-10	3.650E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.211E-10	3.700E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.328E-10	6.150E-12	55000.00	5500
49.95067	41.51169	2.076E+18	1.000E+00	1.097E-10	1.208E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.969E-11	2.470E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.266E-11	2.335E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.619E-11	1.645E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.029E-10	1.450E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.070E-10	1.550E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.173E-10	2.200E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.197E-10	2.650E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.084E-10	2.800E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.198E-10	4.750E-12	55000.00	5500
49.95067	41.51169	2.076E+18	1.000E+00	9.649E-11	8.885E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.664E-11	2.230E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.162E-11	2.265E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.301E-11	1.910E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.469E-11	1.820E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	9.330E-11	1.960E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.077E-10	2.850E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	9.958E-11	3.310E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.073E-11	3.435E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.085E-10	6.650E-12	55000.00	5500
49.95067	41.51169	2.076E+18	1.000E+00	6.167E-11	8.965E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.693E-11	3.550E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	7.490E-11	3.820E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	8.512E-11	2.835E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.092E-10	2.700E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.123E-10	3.100E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.143E-10	4.150E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.132E-10	4.800E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.682E-11	5.390E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.055E-10	9.955E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.168E-11	3.180E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.173E-11	2.880E-12	55000.00	5500

49.95067	41.51169	2.026E+17	1.000E+00	6.764E-11	2.315E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.306E-11	2.220E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	9.512E-11	2.515E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	9.992E-11	3.495E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	9.640E-11	3.985E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	8.567E-11	4.360E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	9.089E-11	6.995E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.959E-11	2.960E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	7.151E-11	2.915E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	9.112E-11	2.225E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.103E-10	1.950E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.199E-10	2.250E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.388E-10	3.300E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.332E-10	3.700E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.238E-10	4.250E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.552E-10	8.000E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	5.075E-11	2.345E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	7.682E-11	2.215E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	9.070E-11	1.575E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.149E-10	1.400E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.187E-10	1.550E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.361E-10	2.200E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.319E-10	2.400E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.295E-10	2.950E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.377E-10	4.750E-12	55000.00	5500
49.95067	41.51169	2.076E+18	1.000E+00	9.578E-11	9.230E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	5.341E-11	2.900E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	7.830E-11	2.595E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	1.001E-10	1.870E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.231E-10	1.550E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.319E-10	1.800E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.469E-10	2.450E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.471E-10	2.850E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.429E-10	3.400E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.573E-10	5.550E-12	55000.00	5500
49.95067	41.51169	2.076E+18	1.000E+00	1.127E-10	1.040E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	5.976E-11	5.835E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	7.250E-11	5.525E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	9.149E-11	3.890E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.233E-10	3.650E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.237E-10	4.050E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.464E-10	5.800E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.277E-10	6.500E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.230E-10	7.450E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.178E-10	1.160E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	5.417E-11	5.780E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	8.416E-11	5.870E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	9.689E-11	4.180E-12	55000.00	5500

49.95067	41.51169	2.825E+17	1.000E+00	1.328E-10	3.950E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.226E-10	4.250E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.371E-10	6.100E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.344E-10	6.900E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.260E-10	7.700E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.433E-10	1.375E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.890E-11	4.950E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.913E-11	4.575E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.239E-11	3.310E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.761E-11	3.085E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.002E-10	3.440E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.038E-10	4.660E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	9.912E-11	5.305E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	8.922E-11	5.905E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	7.659E-11	8.610E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.777E-11	3.510E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.440E-11	4.425E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.759E-11	3.165E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.614E-11	2.975E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.090E-10	3.500E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.210E-10	4.950E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.040E-10	5.410E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.678E-11	6.015E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.136E-10	1.000E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.155E-11	4.400E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	7.360E-11	5.175E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.386E-11	3.350E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.778E-11	3.030E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.009E-10	3.380E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.121E-10	4.850E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.034E-10	5.340E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	8.392E-11	5.660E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	9.347E-11	9.015E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.403E-11	3.840E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.366E-11	4.635E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	8.009E-11	3.300E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.025E-10	3.095E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.030E-10	3.475E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.133E-10	5.000E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.025E-10	5.450E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	8.831E-11	5.915E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	9.575E-11	9.450E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	2.761E-11	2.780E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.664E-11	3.565E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	6.854E-11	2.720E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.776E-11	2.750E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	9.898E-11	3.230E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.039E-10	4.495E-12	55000.00	5500

49.95067	41.51169	7.658E+17	1.000E+00	1.004E-10	4.925E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	8.621E-11	5.575E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.128E-10	1.010E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.905E-11	4.050E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.859E-11	4.595E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	8.552E-11	3.650E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.063E-10	3.450E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.153E-10	4.050E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.204E-10	5.600E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.179E-10	6.550E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.044E-10	7.450E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.306E-10	1.470E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.566E-11	3.740E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.228E-11	4.335E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.486E-11	3.130E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.450E-11	2.925E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	9.606E-11	3.350E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.100E-10	4.700E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	9.278E-11	5.065E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.016E-10	6.390E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	9.106E-11	1.105E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.101E-11	3.175E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.437E-11	3.730E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.521E-11	3.025E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.584E-11	2.955E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.046E-10	3.500E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.120E-10	4.800E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.115E-10	5.600E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.300E-11	5.880E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.202E-10	1.190E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.611E-11	5.650E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.356E-11	6.240E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.360E-11	4.880E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.733E-11	4.750E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.043E-10	5.050E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.030E-10	6.990E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.037E-10	7.740E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.105E-11	8.960E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.277E-10	1.785E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.119E-11	6.590E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.101E-11	5.650E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.756E-11	4.865E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.698E-11	4.110E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	9.734E-11	4.650E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.141E-10	6.200E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.038E-10	7.095E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	8.095E-11	7.655E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.107E-10	1.321E-11	55000.00	5500

49.95067	41.51169	1.042E+17	1.000E+00	4.319E-11	5.410E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.242E-11	5.105E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.032E-11	3.735E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	8.676E-11	3.100E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	8.878E-11	3.410E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	8.994E-11	4.535E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	9.428E-11	5.510E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	7.508E-11	6.050E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	8.564E-11	9.225E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.826E-11	2.990E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.405E-11	3.250E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	6.732E-11	2.470E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.976E-11	2.460E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.002E-10	2.785E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.145E-10	4.050E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	9.602E-11	4.295E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	8.382E-11	4.690E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	9.989E-11	8.910E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.068E-11	2.380E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	4.832E-11	2.525E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	6.447E-11	2.040E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.025E-11	2.025E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	9.295E-11	2.335E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.022E-10	3.260E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.044E-10	3.800E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	8.952E-11	4.155E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	9.600E-11	7.120E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.355E-11	3.615E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.124E-11	3.740E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.399E-11	2.555E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	8.967E-11	2.305E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.033E-10	2.800E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.191E-10	4.100E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.106E-10	4.300E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.138E-10	5.150E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.244E-10	8.350E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.953E-11	2.185E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.148E-11	2.090E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	6.943E-11	1.645E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	8.999E-11	1.495E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	9.459E-11	1.725E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.101E-10	2.500E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.119E-10	2.900E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.061E-10	3.350E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.188E-10	5.750E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.453E-11	6.870E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.141E-11	7.625E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	6.023E-11	5.070E-12	55000.00	5500

49.95067	41.51169	2.825E+17	1.000E+00	9.796E-11	5.235E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	9.657E-11	5.820E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.032E-10	7.485E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.110E-10	9.250E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.423E-11	1.028E-11	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	6.285E-11	1.304E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.638E-11	8.235E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	7.635E-11	1.018E-11	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	8.940E-11	7.605E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.077E-10	6.650E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.175E-10	8.000E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.347E-10	1.100E-11	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.104E-10	1.207E-11	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.613E-11	1.379E-11	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.124E-10	1.822E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.921E-11	5.885E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.232E-11	7.795E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	6.711E-11	5.105E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.020E-10	5.300E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.111E-10	6.200E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.216E-10	8.200E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.230E-10	9.700E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.610E-11	1.031E-11	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	8.467E-11	1.562E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.691E-11	2.765E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.718E-11	2.600E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	6.305E-11	1.920E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	8.638E-11	1.805E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	8.963E-11	1.990E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	9.749E-11	2.805E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	8.751E-11	3.140E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	8.034E-11	3.520E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	8.590E-11	5.810E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.255E-11	3.825E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.682E-11	3.930E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	6.915E-11	2.735E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	8.987E-11	2.550E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	9.238E-11	2.820E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.081E-10	4.100E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	9.605E-11	4.655E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	8.261E-11	5.070E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	9.249E-11	8.620E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.205E-11	4.735E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.571E-11	4.585E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	6.819E-11	3.660E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.433E-11	3.360E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.064E-10	4.050E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.140E-10	5.500E-12	55000.00	5500

49.95067	41.51169	7.658E+17	1.000E+00	1.007E-10	6.045E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.836E-11	6.925E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.031E-10	1.142E-11	55000.00	5500
49.95067	41.51169	2.076E+18	1.000E+00	1.073E-10	2.163E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.850E-11	4.885E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	6.593E-11	4.755E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.386E-11	3.280E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.004E-10	3.070E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.078E-10	3.500E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.018E-10	4.775E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.113E-10	5.500E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.760E-11	6.225E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	9.147E-11	9.325E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.536E-11	4.810E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.728E-11	4.605E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.421E-11	3.430E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.882E-11	3.095E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.029E-10	3.485E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.049E-10	4.800E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.048E-10	5.425E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.938E-11	6.300E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	9.572E-11	9.495E-12	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.020E-11	4.000E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	7.418E-11	5.020E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	8.112E-11	3.380E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.009E-10	3.095E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.056E-10	3.550E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.175E-10	5.000E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.200E-10	5.800E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	1.062E-10	6.675E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.083E-10	1.035E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	3.007E-11	3.795E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.793E-11	4.520E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.139E-11	3.630E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	1.019E-10	3.425E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.147E-10	4.050E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.115E-10	5.550E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	1.057E-10	6.200E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.284E-11	6.660E-12	55000.00	5500
49.95067	41.51169	1.489E+18	1.000E+00	1.225E-10	1.280E-11	55000.00	5500
49.95067	41.51169	1.042E+17	1.000E+00	4.723E-11	6.130E-12	55000.00	5500
49.95067	41.51169	1.453E+17	1.000E+00	5.461E-11	5.725E-12	55000.00	5500
49.95067	41.51169	2.026E+17	1.000E+00	7.934E-11	4.970E-12	55000.00	5500
49.95067	41.51169	2.825E+17	1.000E+00	9.860E-11	4.495E-12	55000.00	5500
49.95067	41.51169	3.939E+17	1.000E+00	1.012E-10	5.080E-12	55000.00	5500
49.95067	41.51169	5.492E+17	1.000E+00	1.111E-10	6.700E-12	55000.00	5500
49.95067	41.51169	7.658E+17	1.000E+00	8.883E-11	7.515E-12	55000.00	5500
49.95067	41.51169	1.068E+18	1.000E+00	9.687E-11	8.925E-12	55000.00	5500

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49.95067 |  41.51169 |  1.489E+18 |  1.000E+00 |  9.878E-11 |  1.383E-11 |   55000.00 |  5500
49.95067 |  41.51169 |  1.209E+25 |  1.000E+00 |  8.053E-12 |  2.055E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  2.224E+25 |  1.000E+00 |  3.843E-12 |  1.016E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  7.640E+25 |  1.000E+00 |  9.139E-13 |  1.376E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  2.614E+26 |  1.000E+00 |  9.337E-17 |  9.230E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  2.418E+23 |  1.000E+00 |  3.383E-11 |  5.950E-13 |   55000.00 |  5500
49.95067 |  41.51169 |  4.835E+22 |  1.000E+00 |  3.771E-11 |  9.000E-13 |   55000.00 |  5500
49.95067 |  41.51169 |  1.451E+23 |  1.000E+00 |  3.881E-11 |  7.450E-13 |   55000.00 |  5500
49.95067 |  41.51169 |  4.835E+23 |  1.000E+00 |  3.755E-11 |  9.700E-13 |   55000.00 |  5500
49.95067 |  41.51169 |  1.451E+24 |  1.000E+00 |  3.184E-11 |  1.265E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  1.451E+25 |  1.000E+00 |  1.780E-11 |  1.495E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  1.209E+25 |  1.000E+00 |  1.050E-11 |  4.950E-13 |   55000.00 |  5500
49.95067 |  41.51169 |  3.627E+24 |  1.000E+00 |  3.015E-11 |  1.665E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  8.462E+24 |  1.000E+00 |  1.462E-11 |  1.425E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  2.418E+25 |  1.000E+00 |  4.176E-12 |  1.097E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  7.253E+25 |  1.000E+00 |  1.653E-12 |  1.186E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  2.418E+26 |  1.000E+00 |  3.562E-17 |  7.315E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  1.209E+23 |  1.000E+00 |  6.066E-11 |  6.500E-13 |   55000.00 |  5500
49.95067 |  41.51169 |  1.209E+25 |  1.000E+00 |  3.106E-11 |  3.350E-13 |   55000.00 |  5500
49.95067 |  41.51169 |  1.523E+26 |  1.000E+00 |  1.863E-13 |  0.000E+00 |   55000.00 |  5500
49.95067 |  41.51169 |  2.418E+26 |  1.000E+00 |  2.003E-13 |  0.000E+00 |   55000.00 |  5500
49.95067 |  41.51169 |  3.869E+26 |  1.000E+00 |  4.389E-13 |  0.000E+00 |   55000.00 |  5500
49.95067 |  41.51169 |  6.045E+26 |  1.000E+00 |  7.911E-13 |  0.000E+00 |   55000.00 |  5500
49.95067 |  41.51169 |  1.523E+26 |  1.000E+00 |  2.048E-13 |  0.000E+00 |   55000.00 |  5500
49.95067 |  41.51169 |  2.418E+26 |  1.000E+00 |  2.211E-13 |  0.000E+00 |   55000.00 |  5500
49.95067 |  41.51169 |  3.869E+26 |  1.000E+00 |  4.840E-13 |  0.000E+00 |   55000.00 |  5500
49.95067 |  41.51169 |  6.045E+26 |  1.000E+00 |  8.712E-13 |  0.000E+00 |   55000.00 |  5500
49.95067 |  41.51169 |  2.189E+25 |  1.000E+00 |  1.122E-11 |  2.462E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  4.715E+25 |  1.000E+00 |  1.272E-12 |  7.939E-13 |   55000.00 |  5500
49.95067 |  41.51169 |  1.016E+26 |  1.000E+00 |  7.328E-13 |  4.863E-13 |   55000.00 |  5500
49.95067 |  41.51169 |  2.317E+25 |  1.000E+00 |  5.907E-12 |  1.861E-12 |   55000.00 |  5500
49.95067 |  41.51169 |  4.473E+25 |  1.000E+00 |  1.059E-12 |  6.148E-13 |   55000.00 |  5500
49.95067 |  41.51169 |  8.636E+25 |  1.000E+00 |  5.859E-13 |  3.626E-13 |   55000.00 |  5500
```

In [28]: ffname

Out[28]: 'work/bzcat/Results/SEDtool/49_95067_41_51169_sedtool.txt'

In [29]: df_sed = pd.read_csv(ffname, sep='|', names=['ra','dec','freq','dfreq','flux','dflux'

        df_sed

Out[29]:   ra   dec   freq dfreq   flux   dflux \
        0   49.95067 41.51169 1.400000e+09   1.0 3.196000e-13 9.600000e-15
        1   49.95067 41.51169 2.418000e+17   1.0 1.818000e-10 1.350000e-12
        2   49.95067 41.51169 2.418000e+17   1.0 3.932000e-11 9.050000e-13
        3   49.95067 41.51169 2.418000e+17   1.0 4.796000e-11 4.350000e-13
        4   49.95067 41.51169 2.418000e+17   1.0 1.261000e-10 2.800000e-12

```
5     49.95067   41.51169   2.418000e+17    1.0   3.076000e-12    1.070000e-13
6     49.95067   41.51169   4.800000e+09    1.0   2.251000e-12    2.010000e-13
7     49.95067   41.51169   4.800000e+09    1.0   2.034000e-12    2.465000e-13
8     49.95067   41.51169   4.850000e+09    1.0   2.402000e-12    0.000000e+00
9     49.95067   41.51169   1.400000e+09    1.0   2.968000e-13    0.000000e+00
10    49.95067   41.51169   3.650000e+07    1.0   5.880000e-14    0.000000e+00
11    49.95067   41.51169   1.000000e+11    1.0   1.111000e-11    1.200000e-13
12    49.95067   41.51169   1.430000e+11    1.0   1.215000e-11    9.500000e-14
13    49.95067   41.51169   4.400000e+10    1.0   7.845000e-12    7.550000e-14
14    49.95067   41.51169   7.000000e+10    1.0   1.039000e-11    9.000000e-14
15    49.95067   41.51169   1.200000e+12    1.0   3.444000e-11    6.700000e-13
16    49.95067   41.51169   8.571000e+11    1.0   2.290000e-11    5.000000e-13
17    49.95067   41.51169   6.000000e+11    1.0   1.765000e-11    4.750000e-13
18    49.95067   41.51169   1.389000e+14    1.0   3.010000e-11    1.695000e-12
19    49.95067   41.51169   1.804000e+14    1.0   3.333000e-11    2.430000e-12
20    49.95067   41.51169   2.427000e+14    1.0   3.604000e-11    2.455000e-12
21    49.95067   41.51169   8.817000e+13    1.0   6.416000e-11    1.360000e-12
22    49.95067   41.51169   6.517000e+13    1.0   6.647000e-11    1.165000e-12
23    49.95067   41.51169   2.498000e+13    1.0   1.879000e-10    2.400000e-12
24    49.95067   41.51169   1.363000e+13    1.0   3.944000e-10    5.450000e-12
25    49.95067   41.51169   4.455000e+14    1.0   6.049000e-11    0.000000e+00
26    49.95067   41.51169   6.233000e+14    1.0   2.371000e-10    0.000000e+00
27    49.95067   41.51169   4.859000e+14    1.0   2.025000e-10    0.000000e+00
28    49.95067   41.51169   3.987000e+14    1.0   1.565000e-10    0.000000e+00
29    49.95067   41.51169   3.462000e+14    1.0   1.229000e-10    0.000000e+00
..       ...        ...         ...         ...        ...             ...
470   49.95067   41.51169   7.640000e+25    1.0   9.139000e-13    1.376000e-12
471   49.95067   41.51169   2.614000e+26    1.0   9.337000e-17    9.230000e-12
472   49.95067   41.51169   2.418000e+23    1.0   3.383000e-11    5.950000e-13
473   49.95067   41.51169   4.835000e+22    1.0   3.771000e-11    9.000000e-13
474   49.95067   41.51169   1.451000e+23    1.0   3.881000e-11    7.450000e-13
475   49.95067   41.51169   4.835000e+23    1.0   3.755000e-11    9.700000e-13
476   49.95067   41.51169   1.451000e+24    1.0   3.184000e-11    1.265000e-12
477   49.95067   41.51169   1.451000e+25    1.0   1.780000e-11    1.495000e-12
478   49.95067   41.51169   1.209000e+25    1.0   1.050000e-11    4.950000e-13
479   49.95067   41.51169   3.627000e+24    1.0   3.015000e-11    1.665000e-12
480   49.95067   41.51169   8.462000e+24    1.0   1.462000e-11    1.425000e-12
481   49.95067   41.51169   2.418000e+25    1.0   4.176000e-12    1.097000e-12
482   49.95067   41.51169   7.253000e+25    1.0   1.653000e-12    1.186000e-12
483   49.95067   41.51169   2.418000e+26    1.0   3.562000e-17    7.315000e-12
484   49.95067   41.51169   1.209000e+23    1.0   6.066000e-11    6.500000e-13
485   49.95067   41.51169   1.209000e+25    1.0   3.106000e-11    3.350000e-13
486   49.95067   41.51169   1.523000e+26    1.0   1.863000e-13    0.000000e+00
487   49.95067   41.51169   2.418000e+26    1.0   2.003000e-13    0.000000e+00
488   49.95067   41.51169   3.869000e+26    1.0   4.389000e-13    0.000000e+00
489   49.95067   41.51169   6.045000e+26    1.0   7.911000e-13    0.000000e+00
490   49.95067   41.51169   1.523000e+26    1.0   2.048000e-13    0.000000e+00
491   49.95067   41.51169   2.418000e+26    1.0   2.211000e-13    0.000000e+00
```

```
492  49.95067  41.51169  3.869000e+26    1.0  4.840000e-13  0.000000e+00
493  49.95067  41.51169  6.045000e+26    1.0  8.712000e-13  0.000000e+00
494  49.95067  41.51169  2.189000e+25    1.0  1.122000e-11  2.462000e-12
495  49.95067  41.51169  4.715000e+25    1.0  1.272000e-12  7.939000e-13
496  49.95067  41.51169  1.016000e+26    1.0  7.328000e-13  4.863000e-13
497  49.95067  41.51169  2.317000e+25    1.0  5.907000e-12  1.861000e-12
498  49.95067  41.51169  4.473000e+25    1.0  1.059000e-12  6.148000e-13
499  49.95067  41.51169  8.636000e+25    1.0  5.859000e-13  3.626000e-13

            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   UL   NaN
27     55000.0   55000.0   UL   NaN
28     55000.0   55000.0   UL   NaN
29     55000.0   55000.0   UL   NaN
..         ...       ...   ...  ...
470    55000.0   55000.0   UL   NaN
471    55000.0   55000.0   UL   NaN
472    55000.0   55000.0        NaN
473    55000.0   55000.0        NaN
474    55000.0   55000.0        NaN
475    55000.0   55000.0        NaN
476    55000.0   55000.0        NaN
```

```
477  55000.0  55000.0        NaN
478  55000.0  55000.0        NaN
479  55000.0  55000.0        NaN
480  55000.0  55000.0        NaN
481  55000.0  55000.0        NaN
482  55000.0  55000.0        NaN
483  55000.0  55000.0   UL   NaN
484  55000.0  55000.0        NaN
485  55000.0  55000.0        NaN
486  55000.0  55000.0   UL   NaN
487  55000.0  55000.0   UL   NaN
488  55000.0  55000.0   UL   NaN
489  55000.0  55000.0   UL   NaN
490  55000.0  55000.0   UL   NaN
491  55000.0  55000.0   UL   NaN
492  55000.0  55000.0   UL   NaN
493  55000.0  55000.0   UL   NaN
494  55000.0  55000.0        NaN
495  55000.0  55000.0        NaN
496  55000.0  55000.0        NaN
497  55000.0  55000.0        NaN
498  55000.0  55000.0        NaN
499  55000.0  55000.0        NaN

[500 rows x 10 columns]
```

```python
In [30]: 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)
```